1.

Hour Angle
End

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				DAVID DUNLAP OBSERVATORY
				74" LOGBOOK
				VOL. 11
				PLATE NOS. 8230 - 8970
				SEPT 1942 - JULY 1943

5.

Date Friday Sept 4-5 1942 Y - N. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	S	Hour Angle End
8230	HD 174569	18 46.0	10 52	25"	E1030-O	010	20.8	7 30	8 40	2	3	28W
8231	HD 177199	18 58.6	19 31	"	"	"	20.7	8 44	9 20	2	7	55W
8232	HD 182272	19 18.8	33 19	"	"	"	20.6	9 24	9 48	3	2	1 04W
	Focus. 23.50 outside throw base							9 5		3	5	
8233	HD 190658	20 00.9	15 13	25"	"	"	20.4	9 55	10 40	3	8	1 13W
										1	3	
		"	"		"	"				1	7	

Focus tests 28.50

Holder 1 Dec. 0° Setting 2 Dec 40° Setting 5 Dec 80° Setting 8

1. 4 RA 2h W dec 40 setting 2 RA 0h Setting 5 RA R E Setting 8

Focus set 23.50

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS	MC	SC	SW	MT	ST	
28 W	10 53	0-1	770	K2	1½-1½-1½	Sep. 4	-1 13.5	-2 19.9	-1 16.3	-03^{s}.8	-0^{m}.4	good
55 W	19 33	1-2	725	KO	1½-1½-1½							good
1 04 W	33 24	2	730	KO	1½-1½-1½							stormy
					5-6.							Little weak
1 15 W	15 18	2-1	791	Ma.	1½-1½-1½	clouds 10^{30}-10^{30} - clouds again						
						Watched sky until 330 — still very uncertain - light clouds moving in from N.W.						
						(Focus very good.)	MC	SC	SW	MT	ST	
						Sep. 8	-1 16.2	-01.7	-1 20.8	-05^{s}.4	-0^{m}.4	
						9	-1 16.8	-03.2	-1 25.0	-05.8	-0.5	
						10	-1 16.4	-04.3	-1 31.1	-06.2	-0.5	
						11	-1 17.3	-04.8	-1 32.2	-07.8	-0.5	

1.

Date Sat Sept 5-6, 1942 Y-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H S	Hour Angle End
8234	HD 166411	18 05.4	30 26	25"	E103a-O	010	+18.0	7h 25m	8h 45m	2-3	1 13W
8235	" 175679	18 51.4	2 21	"	"	"	18.0	8 50	9 ~~30~~ 20	2-7	1 06W
8236	" 189322	19 54.8	1 07	"	"	"	18.0	9 25	9 55	3-3	39W
8237	" 191814	20 06.7	20 51	"	"	"	18.0	10 00	10 40	3-7	1 12W
8238	" 203886	21 19.9	24 06	"	"	"	18.0	10 45	11 3[illegible]	4-3	50W
8239	" 208606	21 52.3	61 04	"	"	"	18.0	11 37	00 21	4-7	1 08W
8240	" 220074	23 15.8	61 26	"	"	"	17.8	00 26	01 22	1-3	0 46W
8241	" 222670	23 37.6	63 58	"	"	"	17.9	01 25	02 37	1-7	1 38W
8242	" 6211	00 58.1	51 58	"	"	"	17.9	02 43	03 19	2-3	1 00W
8243	" 11613	01 48.9	40 12	"	"	"	17.8	03 23	04 07	2-7	0 57W
8244	" 18345	02 51.8	04 05	"	"	"	17.8	04 11	04 59	3	0 47W

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS	
1 13W	30° 29'	1	7.71	K2	1½-1½-1½		good
1 06W	2 25	1	7.28	K0	1½-1½-1½		good
39W	1 11	1	7.13	G5	1½-1½-1½	all plates ofe	good
1 12W	20 59	1	7.26	K0	1½-1½-1½	developed without hardener	Little weak
50W	24 16.	1-2	7.42	K0	1½-1½-1½		good
1 08W	61 17	1-2	7.40	K5	1½-1½-1½		good
0 45W	61 39	1-2	7.80	K5	1½-1½-1½		good
1 38W	64 14	1-2	8.20	Ma	1½-1½-1½		Little weak
1 00W	52 11	1-2	7.34	K2	1½-1½-1½		Fine
0 57W	40 25	2	7.57	K2	1½-1½-1½		Little Strong
0 47W	04 15	1-2	7.66	Ma	1½-1½-1½		good

Date Friday September 11-12/AP L-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8245	H.D. 173833	18 42.3	18 36	I-25	E-103a-O	Set .010	23.4	19 39	20 25	1-3	0 45 W
8246	" 188350	19 49.6	00 01	"	"	"	23.4	20 29	20 41	1-7	0 07 E
8247	" 189695	19 56.2	08 17	"	"	"	23.3	20 45	21 21	2-3	0 27 W
8248	" 193373	20 14.8	12 56	"	"	"	23.3	21 25	22 25	2-7	1 07 W
8249	" 214298	22 32.1	12 04	"	"	"	23.2	22 32	23 32	3-3	0 02 W
8250	" 221246	23 26.3	48 36	"	"	"	23.2	23 37	00 27	3-7	0 08 W
8251	" 1527	00 14.4	40 10	"	"	"	23.2	00 33	01 15	1-3	0 03 W
8252	" 7758	01 12.2	46 53	"	"	"	23.2	01 20	01 58	1-7	0 12 E

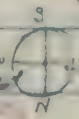
Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS	
0 45 W	18 39	1-2	7.45	K5	1½-1½-1½		triple weak
0 07 E	00 06	1-2	5.57	A0	2-2		good
0 27 W	08 25	1-2	7.15	K2	1½-1½-1½		good
1 07 W	13 03	1-2	7.85	M2	1½-1½-1½		good
0 02 W	12 15	1-2	7.71	K5	1½-1½-1½	Seeing variable.	good
0 05 W	48 50	1-2	7.45	K2	1½-1½-1½	Seeing variable.	good
0 03 W	40 24	1-2	7.41	K0	1½-1½-1½	1603 faint star of two in field - (1552).	good
0 12 E	47 06	~~infinite~~	7.41	K0	1½-1½-1½	dense fog gradually moving in - dome beginning to sweat. no signs of fog clearing so closed up.	no good

11.

Date Saturday, Sept. 12-13, 1942 H-11½ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
8252	HD 162826	17 47.9	+40 05	I-25	E-103a-O	2-t 010		19 08	19 44	1
8253	169648	18 20.6	+38 42	"	"	"	+20.6	19 46	20 48	2
8254	201560	21 24.3	+17 27	"	"	"	+20.7	20 55	22 01	3
8255	212188	22 32.1	+31 21	"	"	"	+20.7	22 05	22 55	1
8256	220204	23 17.1	+21 19	"	"	"	+20.6	22 57	23 31	2
8257	224113	00 06.6	+33 05	"	"	"	+20.7	23 34	00 09	1
8258	7578	01 10.7	+37 36	"	"	"	+20.6	00 31	01 09	1
8259	11928	01 52.0	+27 18	"	"	"	+20.7	01 14	01 52	2
8260	13522	02 06.9	+23 43	"	"	"	+20.6	01 56	02 30	3
8261	15152	02 21.3	+26 33	"	"	"	+20.6	02 34	03 14	1
8262	23626	03 41.5	+31 54	"	"	"	+20.4	03 22	03 46	2
8263	26665	04 07.4	+37 13	"	"	"	+20.5	03 50	04 [illegible]	3
8264	31156	04 37.0	+30 12	"	"	"	+20.6	04 31	[illegible]	1

Cloudy + rain during day. Clearing at night

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 02 W	+40 09	1	7.08	F0	1½-1½-1½	Very windy
	1 24 W	+38 08	1-0	7.52	K2	1½-1½-1½	Cloudy, light + dark intervals
	0 17 E	+17 39	1-0	7.54	K5	1½ 1½ 1½	
	0 21 E	+31 32	0-1	7.33	K2	1½ 1½ 1½	
	0 49 E	+26 19	1	6.98	F2	1½ 1½ 1½	Very bright overall attitude var. ±
	0 21 E	+22 40	1-2	7.65	M2	1½ 1½ 1½	
	0 55 E	+22 50	1-2	7.31	K0	1½ 1½ 1½	
	0 53 E	+27 38	1-2	7.37	Mb	1½ 1½ 1½	
	0 39 E	+23 54	1-2	7.19	K0	1½ 1½ 1½	very variable
	0 00	+26 46	1-2	7.36	K5	1½ 1½ 1½	
	0 47 E	+22 01	1-2	6.79	G0	1½ 1½ 1½	
	0 31 E	+37 50	1-2	7.33	G5	1½ 1½ 1½	
	0 31 E	+30 25	1-2	7.39	K0	1½ 1½ 1½	Hazy

13.

Date Sunday Sept 13-14 1942 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
9265	HD 168697	18 [illegible]	+29 37	I-25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0 37 W	+29 37	1	7.14	K0	1½ 1½ 2	Light clouds.
0 30 W	−20 [illegible]	1-2	6.58	A0	1½ 2 1½	
0 49 W	+29 30	1-2	7.35	K0	1½ 2 1½	
0 56 W	−02 46	1	3.56	K5	1½ 2 1½	Check at 1h 2m 30s. Star gone approximately E.
0 56 W	+18 59	1-2	3.53	K5	1½ 1½ 1½	Thin cirrus
0 48 W	+11 [illegible]	2	6.52	F0	1½ 1½ 1½	
0 31 W	−17 [illegible]	2-3	7.92	F0	1½ 1½ 2	
0 [illegible] W	−11 [illegible]	2	7.17	K0	1½ 1½ 2	Check possibly low. Setting? Focus?
0 30 W	+18 [illegible]	2-3	7.58	K0	1½ 2 1½	

Light cirrus clouds low and very thin.

	MC	SC	SW	MT	ST
Sep. 14	−1 19.4	−09.0	−1 41.1	−08.4	−0.5

Test of ~~[illegible]~~ Right ascension axis of mounting (Middle of Clouds in N and S of zenith)

Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle Dist
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19 34	20 [illegible]	2	0 39 W
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21 05	21 07	3	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21 39	22 [illegible]	1	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22 48	23 [illegible]	2	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23 15	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	01 [illegible]	[illegible]	[illegible]	

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 39 W	+3 34	1	647 A0	1½ E 1½	
	0 W	+1 9 13	1	7 5 K	2½ 1½	
		-2 13	1	7 38 F0	1½ 1½	Lightning - E
	1 12 W	+2 12	1	7 20 F E	1½ 1½	Clouds to E
	1 55 W	+1 54	1-2	6 42 A0	1- 2	
	2 W	+1 7	2	7 18 F	1½ 1½	
		1	2-3		1½ 1½	

	MC	SC	SW	MT	ST
Sep. 15	-1 21.1	-10.5	-1 43.6	-09.2	-0.7
16	-1 21.8	-11.8	-1 45.5	-10.9	-0.6

17.

Date Wednesday night Dec 7/11 Julian Day

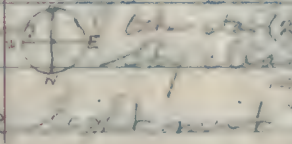
Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
A2681	H.D. 18[illegible]	03 04.6	00 32	T. 16	E. 40	5m 20	43.7	10 04	1 41	3
2682	" 17176	02 38.5	16 04	"	"	"	45.7	11 11	2 17	4
2683	" 21052	03 30.5	24 01	"	"	"	39.7	11 46	2 50	5
2684	" 21212	03 30.2	22 28	"	"	"	35.5	12 29	3 17	5
2685	" 2082	01 04.9	04 26	"	"	"	36.4	01 09	3 15	1
2686	" 1829	01 [illegible]	01 31	"	"	"	35.4	01 38	3 44	1
2687	" 21151	03 43.7	21 44	"	"	"	35.6	02 31	4 09	3
2688	" 21109	03 [illegible]	31 [illegible]	"	"	"	35.7	03 11	4 48	4

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp		REMARKS
	5 [illegible] W	00 27	[illegible]	[illegible]	K2	1/2-1 1/2-1/2		Light haze
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
	1 12 E	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
	0 [illegible]	[illegible]	[illegible]	[illegible]	K5	1 1/2-1-1 1/2		
	0 [illegible] N	+35 10	1-2	[illegible]	K5	1 1/2-1/2-1 1/2		
	1 37 W	+33 21	1-2	[illegible]	K2	1 1/2-1 1/2-1 1/2		
	0 14 N	+21 32	1-2	[illegible]	[illegible]	[illegible]		
	[illegible] 13 E	[illegible] 24	—	[illegible]	K2	1 1/2-1 1/2-		

19.

Date Wednesday Sept 17 1902 L.N. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	"	[illegible]	[illegible]	"	"	"	55·1	00 27	01 [illegible]	1
[illegible]	"	13013	[illegible]	"	"	"	55·0	01 25	01 [illegible]	2
[illegible]	"	[illegible]	[illegible]	"	"	"	55·1	02 30	02 [illegible]	3

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Con.	REMARKS
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	1 20 W	+38 21	1-2	7.21	K0	1½-1½-1½	
	0 13 E	+14 10	1-2	7.29	B5	1½-1½-1½	
	1 03 E	+24 19	1-2	7.28	K0	1½-1½-1½	

	MC		SC		SW		MT	ST
Sep. 18	-1	23.1	-13.9	-1	48.9	-13°	4	-0m.6

21.

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5222	ND 170 17						24.8	19 17	20	1
5223	184534						24.8	20 14	20 40	2

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0 38 W	+11 22	1			1½ 1½	Visit from W/S Evans Increasing fog. Closed up 22[60] because of extreme retraction of dome + shutters. Everything dripping 22[30] Left dome as above
						Sat. Sept 19.20 1942 rain Sun 20-21 clear -1 -0.1

	MC	SC	SW	MT	ST
Sep. 21	-1 26.3	-18.4	+0.[s]3 Rest	-00.[s]6 Rest	-0.[m]1 stopped

23.

Date Monday, September 21-22, 1942, L.-No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
8294	HD 170029	18 44.4	30 46	I 25	E-103a-O	Sec. .010	16.5	00 05	00 [illegible]	1
8295	354445	21 22.5	29 46	"	"	"	16.3	00 [illegible]	00 [illegible]	2
8296	[illegible]	21 36.9	30 20	"	"	"	16.1	00 [illegible]	01 [illegible]	3
8297	" [illegible]	13 31.1	16 13	"	"	"	16.2	00 05	00 [illegible]	1
8298	" 5362	01 17.7	54 21	"	"	"	16.1	00 [illegible]	01 [illegible]	2
8299	" 1125	01 12.2	46 53	"	"	"	16.2	01 15	01 [illegible]	3
8300	13811	02 09.5	47 21	"	"	"	16.1	01 [illegible]	04 [illegible]	1
8301	15464	02 39.0	40 12	"	"	"	16.1	04 07	05 [illegible]	2

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	1 48 W	20 47	0	7.37	G5	½-½-1	
	1 00 W	07 57	0-1	8.01	Ma	½-½ 1½	
	1 05 W	30 33	1	7.66	A5	½ ½ 1½	
	0 54 W	56 53	1-2	7.11	G5	1½ 1½-1½	3027 close to finder.
	0 51 W	54 37	1-2	7.14	K0	1½-1½-1½	
	1 19 W	47 06	1-2	7.11	K0	1½-1½-1½	swing variable.
	1 36 W	47 32	1	7.14	K0	1½ 1½-1½	
	1 56 W	46 20	1	7.18	K0	1½ 1½-1½	

Date Tuesday Sept 22-23 Y-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
8302	HD 181655	19 16.2	37 09	25"	E 103a-O	010	14.4	7 22	8 16 1	-0
8303	HD 181582	19 34.9	36 21	"	"	"	14.8	8 15	8 45 2	
8304	85 Cyg	19 23.1	37 27	"	"	"	11.3	9 03	9 33 3	
8305	15 Vul	19 44.2	26 03	"	"	"	11.3	9 49	10 21 4	
8306	85 Cyg	19 [illegible]	37 [illegible]	"	"	"	11.3	10 [illegible]	10 [illegible] 5	

Clouds at first

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
40m W	37 15	1	7.14	G5	1½-1½-1½	
	16 26	1	7.76	K5	1½-3	haze 8^35 n & by 8^45
2^22 W	39 45	0	7.44	K0	½-1-1½	Light cirro-stratus and haze
0 43 W	55 17	0	7.30	K0	1½-1½-1½	
2 38 W	0 57	1	7.12	K0	1½-1½-1½	

		MC	SC	SW	MT	ST
Sep. 24	-1	36.3	-30.5	-10.6	+04s.4	-0m.0

27.

Date ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle
4506	WD 0341	03 40	17 37	I 65	E 40-0	10' 210	9.7	[illegible]	00 13	I	L. E
F307	" 1441-7	03 41.5	23 19	"	"	"	9.7	00 13	01 24	1	L.
F308	" 1441-7	03 42.5	24 12	"	"	"	9.7	[illegible]	01 40	2	L. M:
F309	" 1441-7	03 43.5	25 01	"	"	"	9.7	01 44	01 45	3	L. NE
3210	1441-7	03 44.5	25 31	"	"	"	9.7	02 53	04 31	4	L. O

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
L 11 E	20 10	1	7.42	K5	1½-E-1½	
L 12 E	23 29	1	7.28	K5	1½-1½-1½	13:59 and 14:06 stars in finder. Set telescope using finder N. 0071 HM. Bearing 01 10
L 17 E	24 19	1	7.38	K0	1½-1½-1½	
L 16 E	21 13	1-0	7.34	K0	1½-1½-1½	
L 15 E	29 30	1-0	7.67	K0	1½-1½-1½	

Sep 25, 26 Fair - 30 m
26, 27 Sat haze
27, 28 Sun hazy

			HC	SC	SW	MT	ST
Sep. 28	12	-01	43.2	-39.2	-27.8	+07.1 s	-0.1 m

29.

Date Monday Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
X311	[illegible]	[illegible]	[illegible]	I-25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
X312	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
X313	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
X314	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
X315	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
X316	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]

Good night by; Cloudy at dark.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 41 W	+16 07	0-1	7.35	K0	1½ 2 2½	N.W. end. Strong
1 51 W	+26 18	1	7.33	K0	1½ 2 2½	OK
1 55 W	+24 42	1	7.52	K5	1½ 2 2½	Full moon
1 32 W	+28 03	1-2	7.28	K0	1½ 2 2½	Cirrus has been moving in
0 59 E	+30 13	1-2	7.30	K0	1½ 2 2½	OK
	+15 32	2	7.52	K0		by evening has been clear. Sky fairly even with Yale dome. Shutter open at 9:30 getting steady seeing for the night. Ended at 12:30 O.K.

Date Tuesday Sept 29-30 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8716	HD 173248	18 40	62 37	20"	[illegible]	0.8	+11.0	6 38	7 18	1
8717	" 18761	19 253	62 21	"	"	"	11.0	7 23	8 45	

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
53m W	62 44	2.1	701	KO	1½-1½-1½	
35 W	62 26	2.	764	KS	1½-1½	shut off by clouds.

	MC		SC	SW	MT	ST
Sep 30	-01	30.1	-26.8	-21.2	+05.1s	+0.1m
Oct. 1	-01	30.8	-26.9	-22.1	+05.2	+0.1

Date Thursday Oct 1-2 L- No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
3454	HD 191325	20 04 3	19 57	T-23	F 103 O	3mm 2mm	16 0	18 50	19 47	3	
3455	" 215161	22 38 2	32 23	"	"	"	16 1	19 50	20 50	4	
3456	" 216161	23 01.5	19 28	"	"	"	15 1	21 11	22 17	1	
3461	" 216161	23 08.8	09 46	"	"	"	14 1	22 45	23 48	2	
3462	" 18519	01 13.2	13 50	"	"	"	16 1	23 57	01 24	3	
3463	" 222111	02 29.5	06 04	"	"	"	16 2	01 31	02 44	4	
3464	" 21516	05 15.0	15 43	"	"	"	16 1	02 50	04	1	
3465	" 25370	22 30.2	35 35	"	"	"	16 1	04 24	05 14	2	

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	3 [illegible] W	50 25	1	6.9P	A2	1½-1½-1½	
	1 40 E	23 34	1	7.33	K2	1½-1½-1½	Seeing variable, poor seeing
	[illegible] E	19 37	1.0	6.9V	F2	1½-1½-1½	Seeing poorer
	[illegible] W	01 01	0	7.30	K2	1½-1½-1½	
	0 07 E	13 12	1	7.07	M2	1½-1½-1½	Poor skies, poor seeing
	0 24 E	06 13	1-0	7.08	G2	1½-1½-1½	
	0 33 E	19 47	1-0	7.44	L2	1½-1½-1½	
	0 49 W	35 25	1-0	7.37	K2	1½-1½-1½	Hazy

35.

Date ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8326	HD 178787	18 56.6	+31 41	2 3/4	2-13-0	2nd 119	-2.3	18 43	23 05	1
8327	19 2734	19 30.3	+41 28	"	"	"	-2.4	20 19	21 29	2
8328	3 27 28	21 41.5	-35 24	"	"	"	-2.3	21 32	22 42	3
8329	21 73 17	22 52.0	+43 15	"	"	"	-1.3	22 41	00 00	4
8330	16467	01 33.4	+03 01	"	"	"	10.2	01 07	01 11	1

Clouds from west on. Sky good at start.

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 35 W	+53 46	0-1	7.15	G5	1½ 1½ 1½	Light clouds, setting E and W, thick N
	1 2-0	+0 35	1	7.43	K0	1½ 1½ 1½	Sky fog [illegible]
	2-7 W	+55 37	1-2	7.60	K0	1½ 1½	
	1 0-5 E	+03 31	2	7.57	K2	1½ 1½ 1½	
	0 57 E	+03 10	2	7.15	G5	1½ 1½ 1½	Sky somewhat cloudy, wind from NE. Sky folding in 1 15 M - waited for a few seconds of seeing - stay each night.

31.

Date Saturday, October 3-4, 1942 Y-Lo Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8321	HD. 172,031	18 31.2	+32 16	1-22	Eastman C	0.03	12-1	18 46		
				plate tilt						
		Sunday, October 4-5, 1942				H	Cloudy all evening.			

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	1 31.4	+30 49	1	~~7.48~~	K0	~~1½~~	Hazy sky — stong [illegible] wind rots. [illegible] [illegible] Thin [illegible] [illegible] showing no signs of improvement 82 or 83 (sky very hazy stong East wind, [illegible] raining) Closed up + went home 52 15

			MC	ΔC	MT	ΔT	SW
Oct. 5	12	-1	32.5	-31.8	+07.9	+0.9	-07.7
						Reset	

39

Date ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8332	HD 18[illegible]	[illegible]	[illegible]	3-A [illegible]	[illegible]	[illegible]	+11.5°	6 23	7 33	2	[illegible]
8333	HD 21[illegible]	22 36 2	53 20	"	"	"	11.1	9 33	10 53	1	[illegible]
	Focused at infinity on Hdc			comp S[illegible] T[illegible]						1	
8334	HD 218[illegible]	[illegible]	[illegible]	"	"	"	17.6°	10 36	N 35	2	[illegible]
[illegible]	4521	08 40[illegible]	[illegible]	"	"	"	11.3	43	45	3	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	11.3	56	[illegible]	4	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	11.3	54	[illegible]	1	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	11.3	21	[illegible]	2	[illegible]

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	59 W	9 28	1	739	KO	1½-1½-1½	Good
	37 W	53 32	1-1	710	KO	1½-1½-1½	Too Strong
							Little "
	1 17 W	52 29	1	726	KO	1½-1½-1½	
	0 42 W	53 19	1	6.8	A2	1½-1½-1½	Too Strong
	0 03	52 07	1	7.77	Ma	1½-1½-1½	Fine
	0 39 E	40 11	1-2	6.4	G2	1½-1½-1½	Strong
	0 52 E	27 46	1-2	7.52	KO	1½-1½-1½	Little Strong
		Focus next 6		23.60		Plan	Take a focus test.

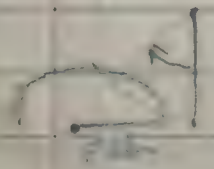
	m.e.	s.e.	s.w.	m.t.	s.t.
Oct. 6	-1 34.5	-0 35.5	-0 15.9	+7.7	-0.1

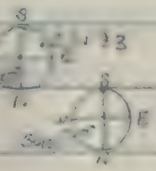
Date Wednesday October 24th - L-M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
[illegible]	[illegible]	[illegible]	[illegible]	7-25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]
[illegible]	"	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	1	[illegible]
[illegible]	"	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	1	[illegible]
	[illegible]										
[illegible]	HD [illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	2	[illegible]
[illegible]	"	17 10	30 46	72 08	"	"	"	16·4	00 00	00 40	3
[illegible]	"	[illegible]	[illegible]	[illegible]	"	"	"	16·4	00 52	01 44	4
[illegible]	"	[illegible]	[illegible]	[illegible]	"	"	"	16·2	01 48	02 30	1
[illegible]	"	[illegible]	[illegible]	[illegible]	"	"	"	16·1	03 36	04 20	2

Mr Longcroft - I have had finding mirror out - so small circle on ground glass may need adjusting. I have put filter on mirror, it turns on axis out of position. Do not turn it on unless deflecting mirror is back out of the way

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	2 24 W	02 02	1	T=4	K5	1½-1-1½	
	1 37 W	08 6	1-2	7.06	F8	1½-1½-1½	
	1 47 W	14 45	1-2	7.84	K5	1½-1½-1½	
						1½-1½	
	L 12 W	N 20	2	7.12	K0	1½-1½-1½	
	C 13 W	12 12	2	7.01	K0	1½-1½-1½	
	2 26 E	17 17	1 R	7.06	F8	1½-1½-1½	
	1 09 E	22 26	1	7.19	K0	1½-1½-1½	
	1 12 E	11 15	1	6.71	F0	1½-1½-1½	





— Heat Oscillation —
Magnificent (orbit) motion ... image ... oscillation ... Ocean — at ... that it ... the surrounding countryside quite clearly

Date Thursday Oct 1 1942 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9367	HD 209975	22 02	05 36	3-25	L+K10	2m/sec	18.1	19 40	20 06	3	
9368	"	22 [illegible]	05 11	"	"	"	18.2	20 10	21 30	4	
9369	"	22 [illegible]	05 47	"	"	"	18.3	21 55	22 17	3	
9370	"	21 [illegible]	05 01	"	"	"	18.2	23 01	23 41	4	

Pierre Auger 1-4 A.M. 44

Hour Angle End	Declination	Seeing	Ptg. Mag.		Com.	REMARKS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	1-0"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Dtg -135 -38 -29

Date Friday Sept 9-10/42 **Y- No.** **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
8251	χ Aquilae	19 41 5	10 22	I 25	E 103a-O	005"	+16 2	6 23	6 29	3	
8252	"	"	"	"	"	"		6 30	6 40	3	
8253	HD 190731	20 01 5	38 12	"	"	008	16 1	6 48	7 50	4	
8254	[illegible]	20 19 7	0 33	"	"	"	16.0	7 56	1 10	1	
8255	[illegible]	21 39 9	15 20	"	"	"	16.0	9 15	10 21	2	
8256	" 219210	21 09 7	33 34	"	"	"	16.0	10 25	11 47	3	
8257	" 15704	02 24 8	12 23	"	"	"	15.7	11 52	01 00	4	
8258	" 17293	05 12 6	21 45	"	"	"	15.8	01 07	02 13	1	
8259	" 15521	05 20 2	12 11	"	"	"	15 8	13 18	04 32	2	

Cleared 521 ?

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
36 E	10 27	1	3.87	K2	4- 4?	} plate Taken for field #97
25 E	10 27	"	"	"	4- 4	
41 W	38 20	0-1	7.34	G5	1½-1½-1½	
1 02 W	+2 43	1	7.55	K0	1½-1½-1½	
46 W	15 35	1	7.36	K0	1½-1½-1½	
1 31 W	23 48	1	7.49	K0	1½-1½-1½	
0 31 E	33 36	1	7.25	K0	1½-1½-1½	
1 12 E	34 48	1-0	7.18	K0	1½-1½-1½	Guiding - took Lund plate (Negative) - Sec
0 15 W	33 14	1-0	7.50	K0	1½-1½-1½	[illegible]

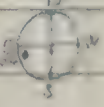
— Helen Sawyer —

Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.6	19 54	20 24	4	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.5	20 07	20 41	1	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20 41	21 11	3	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21 17	21 43	3	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22 21	23 [illegible]	4	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.6	23 29	23 [illegible]	1	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.3	00 00	00 38	2	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.2	[illegible]	[illegible]	3	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.3	[illegible]	02 14	1	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.2	02 53	03 27	1	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.3	03 31	04 37	6	[illegible]

Clock fast ___ F during left clock.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
2 09 W	-20 44	1	7.67	K2	1½-1½-1½	
2 41 W	+32 35	1	6.22	A2	1½-1½-1½	
2 [illegible]	+52 42	1-2	5.69	A0	1½-1½-1½	
2 14 E	-29 17	1	7.16	K0	1½-1½-1½	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
1 45 W	+12 14	1-2	7.15	K2	1½-1½-1½	
2 25 W	+20 41	1-2	6.36	Ho	1½-1½-1½	
[illegible]	+19 25	1	6.76	F2	1½-1½-1½	
1 33 W	+71 29	1-2	7.35	K0	1½-1½-1½	
1 11 W	+56 20	1-2	7.07	K0	1½-1½-1½	
1 24 W	+45 25	1	7.41	A2	1½-1½-1½	
1 37 W	+66 31	1	7.21	K2	1½-1½-1½	



—Heat on Mirror—

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS

51

Date Monday Oct 1 : 13 Y - L Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
2378	HD 194398	20 19 8	63 41	75"	E-130-0	008	14.7	7 07	8 27	1
2379	" 218600	23 53 9	62 41	I-25	"	"	13.0	22 [illegible]	23 47	3
2380	" 7732	01 18 0	77 02	"	"	"	13.0	00 [illegible]	01 05	5
2381	" 4424	04 18 4	70 27	"	"	"	13.5	03 09	03 [illegible]	4
2382	" 17956	02 48 1	63 32	"	"	"	12.9	02 [illegible]	04 [illegible]	3

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1 17 W	63 50	0	7.10	K5	1½-1½-1½	
1 5[m] W	63 5[°]	0-1	7.11	K0	1-1½-1½	
0 57 W	77 16	1	7.16	G1	1½-1½-1½	
1 [illegible]	70 [illegible]	1-0	6.6	A0	[illegible]	
2 [illegible] W	64 [illegible]	1-0	7.11	K2	1½-1½-1½	

	MC	SC	SW	MT	ST
Oct. 14	-1 35.4	-43.0	-28.2	+12[s].8	-0[m].0
15	-1 36.9	-45.3	-30.2	+12.3	+0.1
16	-1 36.3	-45.4	-31.6	+12.6	-0.1

Date ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
5982	B.D. 33°45'	21 49	33 16	1-21"	E-12-0	.01. .005	110·3	00 04	00 16		1
5984	" 6 / 030'	01 26	33 36	"	"	"	111·1	03 16	03 30		2

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
0 16 W	+32 08	0-1	3.76	Ma	1½-1½-1½	Cloudy all day but started trying to clear
0 10 E	+32 12	1	6.60	Fa	1½-1½-1½	about dusk. Still hazy ground fog this
						morning but started to clear F=
						by 3:00 EST. Have photographed most
						of

Date Sunday Dec. 17-18 1932 J-116 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1355	HD 18227[illegible]	2 15 4	+23 17	I-25	E-103a-F	1/16	13.7	19 01	19 55	3	
1356	[illegible]	[illegible]	[illegible]				13.1	19 47	[illegible]	4	
1357	[illegible]	[illegible]	[illegible]	"			13.9	[illegible]	[illegible]	1	
1358	[illegible]	[illegible]	[illegible]				13.7	[illegible]	[illegible]	2	
1359	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	[illegible]	3	
1360	[illegible]	[illegible]	[illegible]				12.7	[illegible]	[illegible]	1	
1361	[illegible]	10 1 13[illegible]	[illegible]				12.6	[illegible]	[illegible]	1	
1362	[illegible]	[illegible]	[illegible]				12.6	[illegible]	[illegible]	2	
1363	[illegible]	[illegible]	[illegible]				12.4	[illegible]	[illegible]	3	
1364	[illegible]	[illegible]	[illegible]				12.6	[illegible]	[illegible]	4	
1365	[illegible]	[illegible]	[illegible]				12.5	[illegible]	[illegible]	1	

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 04 W	33 56	1-2	7.30	F0	12-12-12	
1 [illegible] W	[illegible]	1-2	7.05	A0	12-12-12	
1 03 W	-37 57	1	7.11	K5	12-12-12	
1 [illegible] W	[illegible]	1-2	7.15	F0	12-12-12	
1 12 W	+47 52	1	5.70	A2	12-12-12	
0 57 W	+65 30	1	6.66	F0	12-12-12	
0 45 W	+35 56	1-0	6.53	A3	12-12-12	
0 38 W	+48 41	1-0	6.45	F0	12-12-12	
1 15 W	+25 17	1-0	6.62	A2	12-12-12	
1 30 W	+53 43	1	6.67	F0	12-12-12	
1 32 W	+39 17	1	7.20	F0	12-12-12	

Oct. 19

	MC	SC	SW	MT	ST
	-1 30.6	-30.8	-35.1	+10.4	-0.0

57

Date Tuesday Oct 20-21 Y-L Julian Day 2432613.

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8346	HD 199272	20 51	70 45	35"	F101-0	004	11.0	6 28	7 26	2
8347	202583	21 11 7	63 59	"	"	"	11.1	7 38	8 15	3
8348	" 200128	21 [illegible]	69 19	"	"	"	11.0	8 25	9 31	4
8349	" 211[illegible]8	22 [illegible]	54 34	"	"	"	11.1	9 25	10 25	5
8350	" 224309	23 11 7	82 39	"	"	"	11.1	[illegible]	10 41	6
8351	" 1[illegible]29	[illegible]	5[illegible]	"	"	"	11.1	[illegible]	[illegible]	7
8352	18526	[illegible]	[illegible]	"	"	"	11.1	[illegible]	[illegible]	4
8353	19[illegible]6	[illegible]	[illegible]	"	"	"	11.1	[illegible]	[illegible]	5
8354	[illegible]	[illegible]	[illegible]	"	"	"	11.1	[illegible]	—	8

Thursday Oct 22-23 L-Nc

Clouds and rain all day and [illegible] — [illegible] a little [illegible] Sun extremely [illegible] [illegible] [illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comb.	REMARKS
1h 18m E	+00 15'	1-2	7.33	K2	1½-1½-1½	
40 20 W	64 11	1-2	6 97	G0	1½-1½-1½	
1 42 W	59 30	2	7 78	K2	1½-1½-1½	
1 04 W	54 50	2-3	7 37	K2	1½-1½-1½	
34 W	33 52	2-3	6 42	A0	1½-1½-1½	
06 W	50 48	3	6 78	A3	1½-1½-1½	

Osh. 20 m.c. -1 27.8 sc. -31.1 sw. -33.9 m.t. +10.3 st. -0.9

59

Date Friday 9-23-24 Y-No **Julian Day** 2430556

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8406	WD 2211-776	23 209	37 29	21	[illegible]	008	+8.0	9 56	1 24	E
8407	" 11624	01 490	36 37	"	"	"	+8.0	11 31	12 53	E
8408	" 37138	05 372	33 30	"	"	"	+7.8	01 02	02 34	E
8409	59525	01 490	33 28	"	"	"	+7.9	02 38	04 30	E

cleared about 10 EST

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1 12W	37 43	1	752	K5	1½-1½-1½	Trouble with focussing belt, would not stay on
C 12W	36 51	1	739	K0	1½-1½-1½	
1 09E	33 38	1-0	743	K0	1½-1½-1½	
C 32W	32 55	1-0	773	K1a	1½-1½-1½	Lining up with Hale Telescope Mirror
						New belt put on Oct 24. Spare belt in desk drawer

	m.c.	s.c.	s.w.	m.t.	s.t.
Oct. 22	-139.9	-55.1	-34.9	-8.7	0.0 m.
23	-138.7	-55.6	-33.7	-11.9	-0.1 m.
					result
	m.c.	s.c.	s.w.	m.t.	s.t.
Oct. 21	-1395	-53.8	-35.7	-4.9	-0.0 m.

61

Date ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
3419	HD 195422	20 34.9	+16 21	I-27	[illegible]	[illegible]	[illegible]	5 5½	5 10	2	[illegible]
[illegible]	195336	20 49.1	+69 22	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	21x023	22 07.3	+62 48	"	"	"	5.2	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	21x102	22 [illegible]	+62 24	"	"	"	8.4	[illegible]	[illegible]	2	[illegible]
[illegible]	21x274	23 15.9	+61 21	"	"	"	5.8	[illegible]	[illegible]	[illegible]	[illegible]
3413	1527	00 14.9	+0 10	"	"	"	5.1	23 21	[illegible]	[illegible]	[illegible]

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 32 W	+1½ 25	2	7.76	K5	1½-1½	
	1 19 W	+11 72	2	7.52	K0	1½-1½	
	1 5 W	+17 11	2	7.41	K2	1½-1½	
	0 52 W	+12 10	2-3	7.16	K2	1½-1½	
	0 38 W	+1 13	2	7.50	K5	1½-1½	
	0 12	+10 24	2-1	7.41	K0	1½-1½-1½	Light-plus clouds coming from S.W. - [illegible] clear - [illegible] - [illegible] - signs of clearing - showers Heat On Mirror

	nc.	s.c.	s.w.	m.t.	s.t.
Oct. 26	-1 39.6	-59.9	-40.9	s +9.7	m +0.0
				Reset	
	m.t.	s.c.	s.w.	s	m
Oct. 27	-1 40.0	-1 01.4	-40.1	+10.1	-0.1

Date [illegible] Y. L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5414	HD 8375	01 17 9	33 43	"	[illegible]	[illegible]	+2 7	10 05	10 34	1
5415	HD 17229	02 [illegible]	35 [illegible]	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
5416	" 17080	02 [illegible]	0 27	"	"	"	+2 3	[illegible]	[illegible]	[illegible]
5417	" 26913	04 10 1	05 37	"	"	"	+2 5	[illegible]	31 34	4

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
40 E	33 37	3	7 12	G5	1½-1½-1½	
1 21 E	34 45	3½	7 16	G5	1½-1½-1½	
29 E	15 59	3½	7.55	K0	1½-1½-1½	
32 E	06 03	2	7.72	G5	1½-1½-1½	

	m.c.	Sc.	S.W.	M.T.	S.T.
Oct. 28	-1 41.1	-1 03.5	-40.3	+11.8	+0.1

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Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle
[illegible]	HD 20[illegible]	21 14	10 47	T 25	[illegible]	[illegible]	6.0	19 [illegible]	[illegible]	1	[illegible]
	Comet Test		[illegible]	through	base	3 secs	23.60	Test	23.60		
5419	[illegible]	[illegible]	[illegible]				6.8	19 20	19 46	2	
5420	" 20063	22 04	12 08				6.4	23 58	00 36	3	
5421	" 22386	04 42	03 58	"	"	"	6.3	20 12	02 24	4	

Please get a focus Test.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
6 ^m E	10 °	3	7.60	K5	1½-1½-1½	Setting P-
					7-5	- 7½
0 ^m W	36 19	3	7.78	K5	1½-1½-1½	Stalled. Heavy Clouds with [illegible]
0 25E	+42 19	2	6.94	G5	1½-1½-1½	Stuck at 19.^m40
1 [illegible]	+50 00	1	7.62	K0	1½-1½-1½	Still stuck at 20.^m30 we stood up.
						Stuck at 22.^m0 when leaving for home.
						Heat Not On - cleared for midnight - the
						by putting my bag daily
						for Spring opposite. a little hazy.
						by Economy to keep [illegible]
						- Heat Not On -

	MC	∠C	SW	HT	ST
Oct 29	-1 41.3 m.c.	-1 05.2 s.c.	-38.4 s.w.	+13.0 m.t.	-0.^m1 s.t.
Oct. 30	-1 41.1	-1 05.4	-36.7	+14.1	+0.2

Date Sunday, November 12 1911 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8432	HD 191814	20 16.7	+21 51	I-25	S-1[illegible]	Slit 0.5	+2.9	17 43	18 37	1
8433	2[illegible]	20 58.9	+21 37	"	"	"	+2.9	18 38	20 10	2
								24 min	90	
8434	21[illegible]	19 43.5	+21 27	"	"	"	+2.9	21 32	22 [illegible]	
	Focus [illegible] Set the Cone, 5° 43'									

[illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
3[illegible] W	+28 59	2-1	7.26	NO	1½ 1½	[illegible]
1[illegible] W	+41 36	2-1	7.73	M+	1½ 1½ 1½	Eight stars 19[illegible] [illegible]
						2-5 magnitude stars [illegible]
	+58 13	1	6.29	SO	1½ 1½	[illegible]
						[illegible]

	MC	SC	SW	HTW	STW
Nov. 2	-1 42.8	-1 10.1	-39.1	+13.0 s	+0.1 m

Date Nov 3-4 Tues Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8425	HD 3411	00 31.9	23 28	24"	E-103-0	008	+5.9	9 54	11 24	1	
8426	" 11925	" 00.8	23 13	"	"	"	+5.6	11 19	12 49	2	
	Same Field		Distance through haze								

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1 24 W	23 47	0-1	7.44	K0	1¼-1½-1¾	Focus set to 23.70
0 57 W	27 31	0	7.27	M6	1⅓·1⅔	Clouds 11.50 - 12.45 with gaps at 12.15
					7-5	Stars visible at 8th mag.

Focus 23.70 M set

	m.c.	S.C.	S.W.	M.T.W.	S.T.W.
Nov. 3.	-1 41·8	-1 09·7	-38·9	+5.0 m	+0·2 m
	m.c.	S.C.	S.W.	M.T.W.	S.T.W.
Nov. 4	-1 42·8	-1 11·7	-39·8	+17.0 s	+0·2 m

Date Wednesday November 4 5 1942 L. No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
[illegible]	HD 204365	21 [illegible]	21 45	I 25	[illegible]	[illegible]	+5.0	17 38	19 36	5
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+6.0	19 40	21 [illegible]	4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	18100	02 [illegible]	0 29	[illegible]	[illegible]	[illegible]	+5.2	23 00	00 04	2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+5.1	00 09	01 08	3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
C 47 W	21 57	0-1	2.55	M6	1/2-1/2-1/2	
C 35 W	24 15	1	3.90	M6	1/2-1/2-1/2	
C 25 W	25 03	1	7.24	M5	1/2-1/2-1/2	
C 16 E	25 28	1-2	7.37	M5	1/2-1/2-1/2	Satisfactory Check
C 05 E	25 07	1-2	7.33	M5	1/2-1/2-1/2	
C 14 E	24 39	2-3	7.11	K0	1/2-1/2-1/2	
C 25 E	23 35	1	7.46	K0	1/2-1/2-1/2	Hazy
C 34 E	22 33	1	7.11	K0	1/2-1/2-1/2	Hazy

	M.C.	R.C.	R.W.	M.T.N.	P.T.W.
Nov. 6	-1 40.8	-1 12.4	-3.0	+18.2	+0.2

Date Friday November 6-7 1942 H-No **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
3435	HD 193 [illegible] T	20 11 0	+42 30	2-ST	[illegible]	[illegible]	+59	17 35	[illegible]	3	
3436	2885 [illegible]	21 5 7	-20 48	"	"	"	+58	0 12	2[illegible]	4	
3437	" 34 [illegible] 99	05 12 8	+33 53	"	"	"	+57	02 52	[illegible]	1	
3438	[illegible]	06 05 8	+32 43	"	"	"	+56	03 33	[illegible]	2	
3439	[illegible]	06 33 1	+32 07	"	"	"	+55	04 19	05 [illegible]	3	
3440	[illegible]	06 [illegible]	+37 [illegible]	"	"	"	+58	05 22	06 [illegible]	4	

Saturday November 7 8 H-No

Very strong signs of clearing at 23 hr but still very foggy.

Visibility at 2 30 — no signs of clearing — fairly strong NE wind light clouds and very much fog.

...ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 38 W	+42 38	2-1	7 52	K2	1½-1½-1½	
	2 13 W	+23 59		7 51	K5	1½-1½-1½	
	1 51 W	+23 56	1	6 66	A5	1½-1½-1½	
	0 53 W	+32 43	1-2	5.03	K2	1½-1½-1½	
	1 32 W	+22 05	1-2	7 28	K0	1½-1½-1½	
	2 23 W	+37 12	1-2	7 24	K0	1½-1½-1½	

Date Sunday November 5-6 No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
9441	H.D. 2/13/3	22 22 2	2° 08	1.25	[illegible]	Set. .058	+7°.1	1 9 55	2 1 30	1
9442	H D 2329	00 22	27 01	"	"	"	+8°.0	2 1 40	2 5 45	2
9443	" 15/27	02 2/2	20 07	"	"	"	+7°.0	2 5 21	2 12 15	3
9444	" 18482	02 132	10 38	"	"	"	+7°.0	2 13 20	2 20 05	4
9445	" 21326	03 2/4	12 25	"	"	"	+7°.0	2 21 44	2 [illegible]	5

Sunday Nov. 5-6 1911 Sky [illegible]

Tuesday Nov. 12 - cloudy [illegible]

Sky clearing partly before midnight [illegible]

[illegible]

[illegible]

[illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1 5°8 W	+ 25° 21	0-1	7·68	K5-	1½-1½-1½	Sub-Comp not charg. Log
0 39 W	+ 27 17	1-2	6·74	K0	1½-1½-1½	
0 [illegible] E	+ 50 18	2-3	6·52	F0	1½-1½-1½	
0 22 E	+ 40 30	0-1	7·14	K2	1½-1½-1½	
0 10 E	+ 12 34	2-1	6·71	A2	1½-1½-1½	

	m.c.	s.c.	s.w.	s.t.w.	m.t.w.
Nov. 9	-1 42.0	-1 17.0	-33.2	+0.3	+21.9
	m.c.	sc.	s.w.	s.t.w.	m.t.w.
Nov. 10	-1 41.6	-1 18.1	-32.9	+0.3	+22.9
	m.c.	sc.	s w.	s.t.w.	m.t.w.
Nov. 11	-1 41.8	-1 19.4	-31.7	+0.3	+25.1
	mc	sc.	s w.	s.t.w.	m.t.w.
Nov. 12	-1 42.0	-1 20.6	-30.4	+0.3	+26.0

Nov 13 S T W [illegible]

Date Thursday December 12 1912 2-1/0 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8414	HD 17415	02 39 [illegible]	[illegible]	8 Rc	F 103a-O	2mm				

Friday 7100. 13-14, H-1/0 Clear & warm. Blazing light dark. Seemingly clearing hazy. 1st in light & fogged over.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
				6.70	15	Clouds in morning. Clear off 11:00 EST. Cloudy again 12:15 Finally clear 2:25 Some floor activity. Observation discontinued. Go after image rotator from telescope tube, mirror found to be somewhat fogged as heat had not been on. Put on heat 5 May 56 Mostly cloudy - raining 1:30-2:00 Some of the time to time. Still working on Heat on Mirror -

WBEN η^h

MT +19.1 ST +0.1

1

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Date Sat Nov 14-15 Y-Ac Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8446	HD 203258	21 16.6	32 02	25"	F103a-D	0.8	-3.5°	5 56	7 36	2	34
8447	HD 218261	23 01.5	19 22	"	"	"	-3.9	7 41	8 41	3	11
8448	HD 14[illegible]9	00 12.2	10 39	"	"	"	-3.9	8 46	9 06	4	1[illegible]
	Focus test	Outside three hours			7-5	5					

Sunday Nov 15-11 H-L

Cloudy early evening clearing around 9[30] E.S.T. Strong wind and very mild.

Much water in dome floor; bottle of mud on F Cor at mirror. Seeing not quite as good as it was Saturday night. O.K. Put hut back on.

Clear all day, clouds at sunset

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	1 33 W	32 15	0	7.22	G5	1½-1½-1½	very poor seeing good
	53 W	19 36	0-1	6.92	F8	1½-1½-1½	good
	5m W	10 53	0-1	7.20	K0	1½-1½-	Focus set to 23.50, clouded usable
							Sky brightening 2.30 DST to 3.30 - Cloud breaks - ~~ragged~~ clearing 4.20 - Heat On Mirror -
							Focus 23.80 about right. might be 23.83
							MC SC SW MT ST
							Nov 16 -1 41.8 -1 24.6 -40.3 +25.3 +0.3

81

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Mid
1991	H.D. 218416	23 00 [illegible]	[illegible]	1-55	E 104 D	set 8/8	45°	20 16	21 16 1	

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1 36 W	+52 32	2·3	1 26	Ko	1½-1½-½	Cirrus mostly after beginning exposures. Exposures abandoned - sky still solid 11 20.

	m.c.	sc.	sw.	M.T.W. S	S.T.W. m
Nov. 17	-1 41·8	-1 25·9	-45·8	+26·2	+0·2

Date Tuesday Nov 17-18 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
8460	HD 10735	00 99	30 50	[illegible]	[illegible]	[illegible]	41.0	9.19		-2
			Wednesday Nov 18/42							
	Focus tel outside Hartmann Spec 7^{s}-5^{s} - Focussed at 2342 for tel									

CARNEGIE INSTITUTION OF WASHINGTON

nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
		3 : 3		7 To	8.5	1/2	no use
	Lon pos 8.0	Pleiades.					

Date Wednesday Apr. 11 1906 L. No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
B430	HD 20787	03 18.3	69 41	I 25	1 13 0	Set .002"	11.6	17 45	18 25	4	
B431	"	21 [illegible]	70 21	"	"	"	11.6	[illegible]	19 45	1	
B432	"	21 [illegible]	71 31	"	"	"	11.4	[illegible]	[illegible] 57	2	
B433	"	21 [illegible]	71 03	"	"	"	11.3	[illegible]	[illegible]	3	
B434	"	2137 [illegible]	70 13	"	"	"	11.3	[illegible]	[illegible]	4	
B435	"	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	5	
B436	"	[illegible]	[illegible]	"	"	"	11.3	[illegible]	[illegible]		
B437	"	[illegible]	[illegible]	"	"	"	11.3	[illegible]	[illegible]		
B438	"	[illegible]	[illegible]	"	"	"	11.3	[illegible]	[illegible]		
B439	"	[illegible]	[illegible]	"	"	"	11.3	[illegible]	[illegible]		
B440	"	[illegible]	[illegible]	"	"	"	11.3	[illegible]	[illegible]		
B441	"	[illegible]	[illegible]	"	"	"	11.3	[illegible]	[illegible]		

Friday morning — Everything [illegible] put in dome, Radiant [illegible] put in the, drifts as (last) night, and proceeded [illegible] started at 7 minutes. Sold at the [illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
0 11 W	6 53	1	6.42	A0	1½-1½-1½	Developer by 21 boys
1 59 W	24 37	1-2	7.24	K2	1½-1½-1½	
1 34 W	75 06	1-2	7.24	K0	1½-1½-1½	
1 02 W	71 21	1-2	7.13	K0	1½-1½-1½	
0 [illegible] W	11 18	1-2+0	7.28	K0	1½-1½-1½	Sharp instrument
1 28 W	[illegible] 41	0	6.12	B0	1½-1½-1½	
1 33 W	+81 13	0-1	6.02	A0	1½-1½-1½	
0 39 W	+71 41	0-1	6.67	F0	1½-1½-1½	
1 01 W	+72 21	0-1	7.25	F2	1½-1½-1½	
0 38 E	+72 45	0	6.56	F2	1½-1½-1½	
0 16 E	+71 53	0-1-2	6.73	K0	1½-1½-1½	
1 33 W	+73 23	1	7.38	F0	1½-1½-1½	Clouds moving fast NE.
Cloudy - cloudy - 50+ - [illegible] P started to rain 8h.						

	m.c.	S.C.	S.W	M.T.W. S	B.T.W. m.
Nov. 20	-1 41.1	-1 28.½	+24.3 Reset	+32.1	+0.2

81

Date ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	2 01 W	+31 [illegible]	0-1	7.42	TO	1 1 1	Light clouds, not yet [illegible]
	[illegible]	-32 [illegible]	[illegible]	7.45	MO	1 1/2 1	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	+33 39	1	[illegible]	[illegible]	[illegible]	[illegible]
	0 37 E	+43 06	1	6.55	Fa.	1 1/2-1 1/2 1 1/2	
	[illegible]	+41 25	1	7.01	Mo	1 1/2-1 1/2 1 1/2	
	[illegible]	[illegible]	1	6.30	Fa	[illegible]	
	[illegible]	+11 02	1	7.02	Mo	1 1/2-1 1/2 1 1/2	Clouds overall
	[illegible]	+02 45	1	7.57	Mo	[illegible]	

Date Sunday November 22-23, 1942 G.C.T. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8471	HD 197209	20 37.4	+17 11	I-25	C-103a-O	0.05	+2.5	17 35	17 29	1	
8472				"	"	"				2	
										3	
										4	
										1	
										2	
							12.5	13 31	01 19	1	
8475	21503	04 51.8	+73 37				+2.5	01 23	02 37		

Monday 23-24, 1942 No-
thing observed for Kobs intervals from 7:20 EST on Monday
night to Tuesday evening by 10:30

...nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 37 W	+17 20	2:1	7.27	K0	1/2-1-1/2	Light in the dome at first.
	1 37 W	+17 34	1	7.81	K0	1/2-1-1/2	Sun, last star at dawn, shining into dome,
	1 36 W	+17 58	1	7.11	G5	1/2-1-1/2	
	1 34 W	+18 15	1-2	7.37	K0	1/2-1-1/2	
	1 32 W	+21 40	2	7.58	K0	1/2-1-1/2	
	1 29 W	+17 31	1-2	7.37	K0	1/2-1-1/2	
	1 24 W	+71 39	2	7.19	K0	1/2-1-1/2	
	1 21 W	+72 31	1-2	7.06	K2	1/2-1-1/2	
	1 21 W	+71 40	1-2	6.65	G5	1/2-1-1/2	
	1 22 W	+71 24	1-2	7.46	K0	1/2-1-1/2	On Tuesday, A.D. 1962 Oct. 23, from 2 to 3 A.M. under cloudy low misty sky, but with the dome and Sidereal clock. "⊙" After bringing the telescope to the meridian, the field was found to coincide very closely with the field
	1 25 W	+72 23	1-2	7.49	G5	1/2-1-1/2	

	MC	SC	SW	HT	ST
9h00.23	-1 41.5	-1 32.5	+24.5	-18.9	+0.1
	rem. wt 0.2	rem wt 0.2		reset	

Date ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8482	HD 13522	02 06 9	23 42	I-25	E-103a-J	2.5 mm	-10	20 55		
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
8483	HD 13687	2 19 5	-01 31	"	"	"	-10	21 1	22 41	
		Sunday	Nov 29 20 1942	H.		Cloudy with snow				
		Sunday	Nov. 11-5		Cloudy					
		Sunday	Dec. 6-7		Cloudy					

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							Cloudy + snow flurries during day, clearing at sunset. Cloudy again before dark, light snow. Altocu[mulus] thru, cloudy + snow
							Very cloudy. Clouds thin out
							[illegible] 23 [illegible] Light snow [illegible] cloudy, [illegible]

	m.c.	s.c.	s.w.	m.s.w.	s.s.w.
Nov. 24	-1 40.5	-1 32.4	+24.2	-16.9	+0.3
	m.c.	s.c.	s.w.	m.s.w.	s.s.w.
Nov. 25	-1 40.1	-1 33.2	+22.9	-17.8	+0.3
	m.c.	s.c.	s.w.	m.s.w.	s.s.w.
Nov. 26	-1 39.9	-1 34.1	+18.0	-17.8	+0.3
	m.c.	s.c.	s.w.	m.s.w.	s.s.w.
Nov. 27	-1 39.7	-1 34.9	+15.2	-21.8	+0.2

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Date Tuesday Dec 7-8 N. L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2484	H.D. RA 1283	23 20.8	38 06	1-25"	E 103a-O	.008	-00.2	16 39	17 03	2	
2485	" 14169	12 21.3	26 33	"	"	"	-00.2	20 02	21 20	3	
2486	" 23426	03 41.5	21 04	"	"	"	-00.3	21 24	[illegible]	4	
2487	HD 41995	06 36.7	11 06	T 25	E 103a-O	.015	-01	01 26	02 [illegible]	1	
2488	" 64212	07 [illegible]	12 30	"	"	"	-02	02 48	03 [illegible]	2	

...nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS

	m.c.	s.c.	s.w.	m.T.w.	s.T.w.
Nov. 30	-1 38.1	-137.7	-38.6	+06.1	+0.2
	m.c.	s.c.	s.w.	m.T.w.	s.T.w.
Dec 2	-1 37.8	-1 38.4	-38.2	+06.2	+0.1
	m.c.	s.c.	s.w.	m.T.w.	s.T.w.
Dec 3	-1 37.4	-1 39.0	-38.4	+06.1	+0.1
	m.c.	s.c.	s.w.	m.T.w.	s.T.w.
Dec 4	-1 38.4	1 41.0	-38.1	+06.5	+0.1
	m.c.	s.c.	s.w.	m.T.w.	s.T.w.
Dec 7.	-1 36.0	-1 41.6	-35.9	+03.7	+0.2

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Date [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8489	HD 349 36	04 [illegible]	21 [illegible]	I-E	[illegible]	[illegible]	-15	21 [illegible]	00 [illegible]		[illegible]
8490	" 32467	04 [illegible]	17 [illegible]	"	"	"	-15	01 [illegible]	01 [illegible]	2	[illegible]
8491	" 60434	07 30.5	40 14	"	"	"	-15	01 33	02 15	3	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	0 [illegible] W	71 13	3	[illegible]	Mo	[illegible]	
	0 [illegible] E	17 31	3	[illegible]	Mo	[illegible]	
		40 11	3	[illegible]	M	[illegible]	Left change for last 30 min of exposure. Very little to show.

	S.c.	M.C.	S.W.	M.T.W. S	S.T.W.
Dec. 9	-1 12.5	-1 34.3	-33.4	+09.1	-00.1

Date [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8492	HD [illegible]	[illegible]	61 40	T 25	[illegible]	[illegible]	0 0	17 30	18 14	4	[illegible]
~~8493~~	~~...~~	~~[illegible]~~	~~65 32~~	~~...~~	~~...~~	~~...~~	0.0	19 23	~~...~~	1	

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
0 51 W	61 54	1-2	7.51	K5	1½-1½-1½	
—	65 25	1-2	7.97	M0	1½	

Very fine definition after first hour until about 21.00

	m.c.	s.c.	s.w.	m-t-w. s	s-t-w. m.
Dec. 0.	-1 34·8	-1 41·8	-32·7	+09·1	-0·1
	m.c.	s.c.	s.w.	m-t-w. s	s-t-w. m.
Dec. 11	-1 37·0	-1 44·4	-35·9	+10·7	+0·0

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8403	HD 212097	22 13 [illegible]	+71 25	1-[illegible]	[illegible]	5/8	-7½	1T 22	2[illegible]	1	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7°	20 06	21 06	2	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.5	21 13	22 10	2 3	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.5	22 17	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7½	23 33	[illegible]	[illegible]	[illegible]
		Wednesday Nov 6 - 1901									
Exp. F	Fountain entirely shut off 7°-5° Temperature 2100 for Test.										Temp 102

Frame at t = 23.95+.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
			1-0	7.85	Ma	1½ ½ 1½	
			0-1	7.2	KO	1½ 1½ 2	
			1-2	7.25	B5	1½ 2 ½	
			0	7.15	G0	1½ 1½ 1½	
			0	6.67	G5	1½ 1½ 1½	Haze — gradually getting thicker as it falls

	m.c.	s.c.	s.w.	m-s w	s-s w.
Dec. 15	-1 31·0	-1 45·6	-26·3	+12·9	-00·1
	m.c.	s.c.	s.w.	m-s w.	s-s w.
Dec. 16	-1 31·2	-1 47·0	-25·9	+12·6	+00·0

Temp. -10.2°C Pete Hackett

Date Wednesday Dec 16-17/42 G.M.T. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
3491	HD 228670	23 38.6	63 08	I-20	Eastman 103a-O	Slit 1030	-10.5	17 37	20 45	E	
3499	" 17304	02 46.2	65 40	"	"	"	-14.8	20 02	23 42	W	
3500	" 21537	04 20.0	60 40	"	"	"	-10.6	23 48	01 05	W	

Tuesday Dec 18-19/42 G.M.T.

Cloudy all night & day - clear 11:30 P.M. Blowing and blowing quite frequently during night - clear & cold & windy all day

Sunday Dec 20-21 G.M.T.

Third day gradually getting warmer - cloudy & clear intervals; temp very low

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	2 [illegible]W	61 12	0	920	Ma	[illegible]	Storm set back to 23.85
	0 40 W	12 22	0	595	Fe	[illegible]	
	01 27W	59 47	0	74	Ma	[illegible]	Storm moving from NW 23 40 EST. [illegible]

			S.C.	S.W.	M.T.W. S.	S.T.W. M.
Dec. 18. M.C.	-1 29.8	-1 47.5	23 8		+17.8	+0.2
	M.C.	S.C.	S.W.		M.T.W. S	S.T.W. M
Dec. 21	-1 27.0	-1 48.3	-02.6 Reach		+11.1	-0.1 Reach

Date [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
33-01	H.D. 14221	02 12 9	+8 29	1-25	[illegible]	[illegible]	-10.2°C	19 31	20 11	[illegible]
	[illegible]									

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	0 21 E	+17 42	8	.668	FO	.12-16-12	Cloudy during day – clearing 6.22PM but still quite hazy – sky improving 7.15PM. – Hazy in S 7.45 PM. Clouded up 10.45PM Cloudy 10 P.M

	nc.	sc.	s.w.	m.t.w.	s.t.w.
Dec 22	-1 26.3	-1 48.6	-4.0	+12^{s}.6	+0.1^{m}
	nc.	sc.	s.w.	m.t.w.	s.t.w.
Dec 23	-1 25.8	-1 48.8	-4.5	+12.1^{s}	+0.1^{m}

Date Sunday, January 1-2 1943 H. No. Julian Day C-26

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8502	[illegible]	02 12.9	+48 29	1.25	[illegible]	Set [illegible]	[illegible]	19 55	21 05	2	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	21 10	22 24	3	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	4	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	1	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	2	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	3	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

Clouds at dusk; fr. clearing and cooling. Lost part of first T when ice from shutter cracked, and part many of the following slides. Good 2 hrs of observing.

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 15 W	+47 43	2	6.63	F0	1½-½-1½	[illegible] 23.53 [illegible]
	1 52 W	+5 18	2	+.15	F0	2-2-1½	[illegible]
	1 16 W	+25 17	2	6.77	F2	1½-1½-1½	
	2 21 W	+21 43	2	6.20	F5	1½-1½-1½	
	1 [illegible]	+[illegible] 21	2-1	3.19	F0	1½-1½-1½	
	0 12 W	[illegible]	2-1	6.02	F0	1½-1½-1½	[illegible]

	mc.	SC	SW	M.SW.	A.W.
January 4	-1 14.6	-1 54.5	+38.6	+42.3	+0.4

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Date Saturday January 6-7, 1900 Julian Day 0727

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
2505	HD 28191	04 21.8	01 52	I-25	E-10-0	Set 025	-5.6	21 35	00 43	1
2506	" 27764	05 20.0	21 37	"	"	"	-5.6	22 [illegible]	00 [illegible]	2
2510	[illegible]	06 [illegible]	10 26	"	"	"	-5.4	00 09	01 33	3
2511	[illegible]	01 [illegible]	[illegible]	"	"	"	-5.8	01 38	[illegible]	4
2512	[illegible]	[illegible]	[illegible]	"	"	"	-5.7	02 08	[illegible]	5
2513	[illegible]	[illegible]	[illegible]	"	"	"	-6.0	03 12	[illegible]	6
2514	[illegible]	[illegible]	[illegible]	"	"	"	-5.8	00 31	[illegible]	7
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	-5.9	[illegible]	[illegible]	8

Cloudy all of early evening, clearing occasionally later. Old 20.30 Synthetic obs.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	0 30 W	01 38	1-2	7.37	K0	1½-1½-1½	
	2 - 6 W	22 38	1-2	7.54	K2	1½-1½-1½	
	1 30 W	21 42	1-2	7.60	K0	1½-1½-1½	
	1 30 W	23 21	1-2	7.22	G8	1½-1½-1½	Intermittent brightening
	2 - W	20 46	1-2	6.80	D0	1½-1½-1½	
	1 30 W	22 44	1-2	7.61	K0	1½-1½-1½	
	2 - W	21 41	1-2	7.60	K0	1½-1½-1½	
	1 30 W	23 42	1-2	7.37	K0	1½-1½-1½	

Jan. 5. mc. -1 12.6 m.c. | sc -1 [illegible]9 sc. | S.W. +39.8 S.W. | M-F.W. +43.2 S | S-F.W. -01 m

Jan. 6 -1 12.8 | -1 55.1 | +41.0 | -16.6 M-F.W. Result | +0.2 S-F.W. m

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Date Wednesday January 6, 1892 Julian Day 2731

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5816	H.D. 42040	06 22.5	+02 12	I-25	F 104:0	.018	-1.5 C	10 23	0 16	1	5
5817	[illegible]	01 [illegible]	3 29	I-21	"	"	[illegible]	[illegible]	0 18	2	2
5818	[illegible]	[illegible]	[illegible]	"	"	"	-0.4 C	[illegible]	[illegible]	3	[illegible]
5819	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	4	[illegible]
5820	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	5	[illegible]
5821	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	6	[illegible]
5822	[illegible]	[illegible]	[illegible]	"	"	"	-0.6 C	[illegible]	[illegible]	7	[illegible]

Mostly cloudy during day - dry very cold

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	1 45 W	+ 22 10	0	7.11	K2	112-1k 1/2	
	1 29 W	+ 23 25	0	6.81	A5	112-1k 1/2	
	1 57 W	+ 12 23	0	5.24	A8	112-1k 1/2	
	1 [illegible] W	+ [illegible] 25	0+1	6.35	A5	112-1k 1/2	
	1 [illegible] W	+ 10 15	0	6.20	A2	112-1k 1/2	
	1 11 W	+ 37 [illegible]	1	7.4	K0	112-1k 1/2	
	1 [illegible] W	+ [illegible] 21	0	7.8	K0	112-1k 1/2	

Date Thursday January 7-8/43 L- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8523	HD. 7351	01 05.6	29 [illegible]	I - 25	E-103a-O	Set 008	-9.8	17 45	[illegible]	4
8524	" 21774	03 26.7	31 32	"	"	"	-9.8	[illegible]	[illegible]	1
8526	" 32478	04 38.7	29 30	"	"	"	-9.7	[illegible]	[illegible]	3

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	2 06 W	28 13	0	7.98	Ma	1½-1½-1½	
	0 06 W	57 41	0	6 93	F5	1½-1½-½	
		60 35	0	7 63	A2	½	Starts 11 53 - 12 50 [illegible]

Jan 8. M.C. -110.3 S.Q. -1 55.3 Removed wt 1.0 S.W. S -15.0 adv. 1m M.Tw. S -11.2 S.W. S -08.0

Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
7525	HD 224572	23 56.3	+42 25	I-37	[illegible]	2nd	[illegible]	17 37	17 57	3	
7526	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	19 [illegible]	20 [illegible]	4	
7527	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	21 34	21 [illegible]	1	
7528	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	21 [illegible]	[illegible]	2	
7529	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	22 37	[illegible]	3	
7530	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	23 37	[illegible]	4	
7531	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	01 37	[illegible]	1	
7532	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	2	
7533	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	3	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS

	m.c.	S.C.	Reach S.W.	Reach M-T-W-S	Reach S-Zw-m.
Jan 11.	-1 07.7	-01 52.8	+07.8	+08.3	+8.1

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Date Tuesday 12-13 from Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
P536	HD 89405	10 19 1	+7 2/1	1-20"	IIIa-J	2mm	-3.7	6 13	7 43	4	
P534	23187	02 42 3	+00 04			"	-4.0	7 49	8 40	1	
P535	26923	4 18 5	+5 57	"	"	"	-4.0	8 54	9 54	2	
P537	340 13	5 09 1	+32 10			"	-4.1	8 59			
	Iron lost 7-5 slide Hartmann										

Ending Time HXT	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comb	REMARKS
	2 5 W	+ 4 40	0	7.00	M2	½-½-½	
	12m W	+6 02	0	7.10	M0	1½-1½-1½	middle 6 m
	5m W	6 01	0-1	7.10	2	1½-½-1½	middle 6 m
		7 1 4	0-1	6.15	A0	1½-	clouds -
							from 13 - 1 06 3 - 1 2 0 6 - 1 1 3 0 - 1 1 3 1 - 1 2 2

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Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
M31F	NO 15101			1 24"	EK 6	set .018				
	?									

Jan 14 L Cleared up and while focusing after to the east began fading, light clouds coming up from the west slowly thickening. Fully quite thick at 21h. Clears up and lifts.

From abt 23.25

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
						Sky fairly clear - wisps of cloud
						no sign of change

	m.e.	S.C.	S.W.	M.T.W.	S.T.W.
Jan. 15.	-1 05·3	-1 48·8	+10·6	+14·4	+0·3
	m.e.	S.C.	S.W.	M.T.W.	S.T.W.
Jan. 18	-1 02·7	-1 45·6	-01·1	+00·1	+00·0
	m.e.	S.C.	S.W.	M.T.W.	S.T.W.
Jan. 19	-1 01·8	-1 44·5	+11·1	+11·1	+1·1
	m.e.	S.C.	S.W.	M.T.W.	S.T.W.
Jan. 25	-0 59·0	-1 43·7	+11·5	+11·1	+1·1
	m.e.	S.C.	S.W.	M.T.W.	S.T.W.
Jan. 21	-0 58·8	-1 43·3	+10·0	+11·6	+1·2
	m.e.	S.C.	S.W.	M.T.W.	S.T.W.
Jan. 22	-0 57·0	-1 41·4	+10·3	+11·1	+1·1
	m.e.	S.C.	R ~~35·6~~	M.T.W.	S.T.W.
Jan. 25	-0 54·1	-1 44·9	~~+11·9~~	+19·9	+0·2
	m.e.	S.C.	S.W.	M.T.W.	S.T.W.
Jan. 24	-0 52·1	-1 36·7	+09·2	-16·9	+1·1
	m.e.	S.C.	S.W.	M.T.W.	S.T.W.
Jan. 27	-0 44	-1 32·8	+08·4	+1·6	+0·0

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Date February January 1942 / 43 L. M. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle
8637	N.D. 16024	5h 39m	66 19	I. E.	E-1-O	Set 008	-04.5	15 10	15 40	1	.5
8638	" 21004	03 18 3	53 35	"	"	"	-04.5	19 47	20 20	2	1 4
	Focus Test	Obstacle	through	face							

Hour Angle
End

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	5 [illegible] W	63 31	0	7.07	Ko	1½-1½-1½	Focus was 22.85
	1 14 W	53 45	0	6.7	Fo	1½-1½-1½	Reset on this plate to 23.81 Haze and clouds
						7:53	so late out of focus!
							Shifting in Dec. Plate at 22.00

	m.c.	S.C.	S.W.	M.W.	S.W.W.
Jan 28	-0 53·6	-1 34·9	-02·0	-17·4	0·0

Date Monday January 13 1941 Julian Day 43

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
4139	N.G.C. 7789	0h 1m	63° 55'	I-21	E-10+0	5.7 .008	-5.9	18 40	20 20	3
4140	NGC 101	0h 23.8m	69° 15'	"	"	"	-5.9	20 14	21 45	4
4141	38 Cas	0h 43.8m	64° 21'	"	"	"	-5.9	21 30	23 15	1
4142	[illegible]	0h 44m	59° 11'	"	"	"	-5.8	23 24	0044	6
4143	38 Cas	0h 43.8m	64° 04'	"	"	"	-5.8	00 50	02 22	3
4144	[illegible]	0h 48m	64° 18'	"	"	"	-5.9	02 29	03 51	7
4145	[illegible]	0h 57m	49° 28'	"	"	"	-5.8	03 35	04 55	1
4146	[illegible]	0h 57m	59° 39'	"	"	"	-5.7	04 40	05 59	6
4147	[illegible]	1h 18.7m	61° 48'	"	"	"	-5.7	05 45	07 05	3
4148	27 Cas	1h 20.0m	56° 46'	"	"	"	-5.7	06 31	07 05	4

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1 40 W	64 06	1-2	7.7	K5	1½-1½-1½	Little-weak
1 21 W	68 27	1	7.41	K0	1½-1½-1½	Fine
1 4 W	68 28	1	7.40	K0	1½-1½-1½	Fine Strong
1 19 W	23 07	1-2	7.48	K0	1½-1½-1½	Fine
1 36 W	71 55	1	7.46	K0	1½-1½-1½	Fine
1 52 W	74 35	0	7.44	F8	1½-1½-1½	Strong
2 8 W	76 26	1	7.20	G2	1½-1½-1½	Little Strong
0 24 W	54 27	1-2	7.10	A2	1½-1½-1½	Too Strong
0 39 W	41 30	1-2	7.46	K0	1½-1½-1½	O.K Strong
0 55 W	65 30	1	7.46	F0	1½-1½-1½	Too strong
						Total -1.26 -1.29 +.53

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Date Feb 2-3 Tuesday Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8549	W Aurigae	5 46½	37 40	10"	103a-D	008	-1.0	7 28	7 58	1	
8550	1594 B	4 45	50 30	"	"	"	-1.0	8 06	8 36	2	
8551	2160	5 05	73 09	"	"	"	-1.1	9 28	10 03	3	
8552	2816	5 40	54 53	"	"	"	-1.2	10 08	11 03	4	
8553	03345	07 13	13 30	"	"	"	-1.2	11 [illegible]	[illegible]		

Clouds for most of the time

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	4 2 W	57 50	0 !	5.79	A0	1½-1½-1½	gave us [illegible]
	4 2 W	54 40	0 !	6.70	F5	1½-1½-1½	
	2 3 W	73 14	0	5.76	A0	1½-1½-1½	
	1 4 W	56 56	0	6.40	A2	1½-1½-1½	
	0 [illegible] W	13 [illegible]	0	7.25	K0	1½-1½-1½	the suddenly thickening [illegible] stages that followed

Date Friday February [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
[illegible]	WD 1641+39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	61 219	10 132	+48 [illegible]				+2 9	[illegible]	[illegible]	
	[illegible]									

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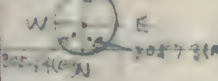
Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS

Date Monday February 8-9/43 No - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8561	H.D. 28322	04 22.9	01 38	1·25"	E-103a-O	Set .008	-01.7°C	18 29	19 32	4
8562	" 30545	04 43.5	02 28	"	"	"	-01.9°	19 41	20 55	1
8563	" 31955	04 49.9	04 21	"	"	"	-02.1	20 53	22 13	2
8564	" 26159	04 [illegible]	03 [illegible]	"	"	"	-02.1	[illegible]	22 [illegible]	3
8565	" 27211	04 [illegible]	04 02	"	"	"	-02.1	21 44	00 14	4
8566	" [illegible]	00 [illegible]	03 [illegible]	"	"	"	-02.1	01 [illegible]	[illegible]	[illegible]
8567	" [illegible]	05 [illegible]	11 [illegible]	"	"	"	-03.1	01 [illegible]	01 [illegible]	[illegible]
8568	" 14404	11 [illegible]	01 [illegible]	"	"	"	-04.1	00 [illegible]	[illegible]	[illegible]
	Fine [illegible]		Quite [illegible]							

Focus set 23.78

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	0 02 W	+01 44	0	7.12	K0	1½-1½-1½	Tape on L.-H. L.R.A. clamp! [illegible] 7me
	1 05 W	+03 29	1	7.20	K0	1½/1½-1½	 7 me
	1 07 W	+04 24	1-0	7.12	K0	1½-1½-1½	[illegible] 7me
	1 09 W	+02 36	0	7.00	K0	1½-1½-1½	[illegible] 7me
	0 12 W	+05 43	0-1	7.31	K0	1½-1½-1½	7me
	1 09 W	+03 22	1-2	6.71	F0	1½-1½-1½	OK
	1 41 W	50 54	1	6.97	F5	1½-1½-1½	OK
	1 58 W	52 03	1	7.13	K0	1½-1½-1½	strong OK
						7.4 6.7	

Focus still short?

Date Tuesday Feb 9-10 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8569	HD 21235	03 21.4	18 25	I-25	E 103-a-O	008	-1.8	6 22	7 10	4
8570	HD 31411	04 506	5 15	"	"	"	-2.0	7 15	7 55	1
8571	HD 32263	04 567	0C 30	"	"	"	-2 0	7 59	8 49	2
8572	HD [illegible]	[illegible]	[illegible]	"	"	"	-1.9	8 54	9 54	3

Thursday Feb 10-11 /13 No-L

On opening, temp of spectrograph found to be -18.2°C and this could not be accommodated by the thermostat Budge

Focus set 23.78

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
7 11	47 W	18 34	1	6.51	A2	1½-1½-1½	haze
7 55	01ᵐ W	5 19	1-0	6.59	A0	1½-1½-1½	
8 40	50 W	+0 38	1-2-1	7.18	K0	1½-1½-1½	
9 25	1 03 W	0 58	1-0	7.23	K0	1½-1½-1½	haze (Thick)

	m.c	SC	SW	mTW STW
J.1-10	-419	-1 129	+020	+063 -051
	m.c	SC	SW	TS mTW STW
J.1 11	-412	-1 [illegible]	+053	1 C55 +00.1
	m.c	SC	SW	mTW STW
J.1-12	-403	-1 137	+059	+068 +00.1
	m.c	SC	SW	mTW STW
J.1 15	380	-1 145	-001	00 S 40 0
	m.c	SC	SW	
J 16	-367	-1 134	-002	+01.1 +00.1
	m.c	SC	SW	mTW TW
J.1-21	340	-1 134	-003	+01.5 +00.6

Date Wednesday Feb 17/1915 No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8573	M.D. 32030	04 55.3	03 28	I 25	Ex+2.0	Set 008	-10.4	18 45	20 07	4
8574	" 32040	"	"	"	"	"	-10.4	20 08	21 04	1
8575	" 42807	06 07.7	10 40	"	"	"	-10.5	21 13	22 33	2
8576	" 30016	08 [illegible]	09 18	"	"	"	-10.7	22 38	23 46	3
8577	" 33314	08 42.4	00 33	"	"	"	-10.6	23 52	01 19	4
8578	" 248-2	10 34.6	19 22	"	"	"	-10.7	01 54	03 16	1
8579	" [illegible]	11 22.4	19 10	"	"	"	-10.7	02 51	04 22	2

Exp. Test with Ex+2.0 Set 1 - 4

Sunday Overcast morning, cleared about noon, fairly good for rest of night

Test Exp. for Ex+2.0 Set 1 - 4

for 2 hours 00

Sunday Feb 21-22 Cloudy & unsettled. Clear for a few hours about midnight. Still foul 9 30 p.m.

Ending Time E.S.T.

Focused at 23.90

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
0 40 W	+03 32	0	6.26	Ao	1½-1½-1½	Passing star pair
1 55 W	"	0	6.63	Ao	1½-1½-1½	following
1 [illegible] W	[illegible]	0+	8.24	G5	1½-1½-1½	
[illegible]	[illegible]	[illegible]	7.07	G5	1½-1½-1½	
[illegible]	[illegible]	1	7.29	K0	1½-1½-1½	
1 [illegible]	[illegible]	1-2	7.29	K0	1½-1½-1½	trouble with declination - [illegible]
1 [illegible]	[illegible]	1-0	7.42	K0	1½-1½-1½	[illegible] setting drop

	mc	sc.	r.a.	r.m.s.
Feb. 19	−3.54	−1 03.3	+3.28	+0.57

Cont. of Sat. Feb 20-21. Telescope still very wet 8 PM

cont. of telescope [illegible]

	d	sc.	r.a.	r.m.s.
Feb 21	−2.09	−1 05.5	+1.03	+1.20

Date Tuesday Feb 23/43 No-1 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9480	H.D. 28736	4 26.7	+5 11	1·25	E 33a-0	Set .008		1 43		
9481	35527	5 41.4	0 1 00				+04 6			
9482	42356	6 27.1	6 8 27							
	Focus Scale – outside of box 7¹-5⁰									

Cloudy, hazy, partly clear, cirrus

Focus at 23:20

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	2 42W	+65 17	1-2+	6.77	F2	11½-11½-12	Light moisture - clouds rolling in?
	2 24W	+11 09	1-2	6.92	F5	12-12-12	
	2 02W	+63 20	1-2	7.43	K0	12-12-12	Setting in again 21:15 - still very much
	focus 3.02						

	mc	S Ref	S	M T W T F W
Fri 24	-29.0	-32.0	-29.7	112.0 +0.4

Date Feb 24-25 Wednesday Y- No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8583	HD 33406	5 08.7	00 26	I 25	E 103a-O	008	+1.9	18 35	20 09	2	5m W
8584	HD 33605	5 41.5	14 28	"	"	"	+1.6	20 15	20 37	3	32 W
8585	HD 45357	6 21.8	0 54	"	"	"	+1.6	20 41	21 25	4	1h W
8586	HD 56[illegible]	7 03	5 10	"	"	"	+1.7	21 30	22 34	1	1 21 W
8587	HD 73[illegible]99	8 41	8 32	"	"	"	+1.5	22 39	[illegible]	2	[illegible]
[illegible]	HD 73[illegible]28	10 19	2 82	"	"	"	+1.5	00 38	02 44	3	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+1.3	[illegible]	[illegible]	[illegible]	[illegible]
3388F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					

Focus Set 23.72

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	5-7 W	+00 30	1-0	7.6	K2	1½-1½-1½	
	5-2 W	14 30	1-0	5.73	A2	1½-1½-1½	
	1h W	+00 51	1-0	6 51	A0	1½-1½-1½	
	1 21W	+8 03	1	7 32	N6	1½-1½-1½	
	1 55W	+8 12	1-0	7 49	K0	1½-1½-1½	
	2 13 W	+12 10	1-0	7 48	K0	1½-1½-1½	
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

Date Thursday February 25-26/43 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3483	HD. 29606	04 34.7	59 20	I-25	E103-0	3/16	-4.3	19 00	20 30	/

Friday February 26-27 1943

Cloudy with snow

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	1^{3}-1 W	51 27	0	6.61	A3	1½-1½-1½	[illegible]
							[illegible]
							Inst 26 mc -26.8 SC +02.2 [illegible] 01.7 [illegible] [illegible]

Date Sunday February 28 - March 1, 1913 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3579	HD 46703	6 26.5	+11 45	2-25	[illegible]	[illegible]	-1°	20 13	21 43	2
3580	63352	07 [illegible]	+13 37	"	"	"	-2.1	21 45	23 15	3

Cloudy and slow intermittent type of cirrus
frequent over flurries
Seen at 23.77

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 23 M	+ 11 44	2	7.15	K0	12 1/2 1/2	Mark 20[22] - 21[15] Sh Kodak Negative [illegible] Impossible
	1 23 M	+ 12 22	2-1	7.25	K2	12 1/2 A	Smaller Mark

Date Monday March 12/43 No-L Julian Day 2430725

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8592	H.D. 32685	05 49.0	+03 13	1-25"	E-103a-O	Sat .002	-04.6°C	19 22	21 12	4	1 41
8593	" 60357	07 [illegible]	[illegible]	"	"	"	-04.7	21 17	[illegible]	1	[illegible]
8594	" 31935	08 [illegible]	[illegible]	"	"	"	-04.9	21 57	23 17	2	[illegible]
8595	" 78712	09 [illegible]	21 [illegible]	"	"	"	-05.0	23 31	01 40	3	[illegible]
8596	" 101151	11 33.3	24 18	"	"	"	-04.9	01 45	03 35	4	[illegible]
	Moon Just			Clouds through							

mostly cloudy during day - some breaks after sunset - clearing after midnight - windy strong NW wind

nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							Focus set 23.85
	1 40 W	+03 14	1-0	7.55	K0	1½-1½-1½	
	0 41 W	+03 31	0	5.82	A0	1½-1½-1½	
	1 23 W	+02 17	0	6.21	K0	1½-1½-1½	
	2 [illegible] W	31 10	0	?	M2	1½-1½-1½	
	3 19 W	32 56	0	7.13	K2	1½-1½-1½	Very cloudy thickening from sunset
						7'5"	after sunset

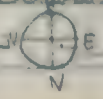
Date Mar 3-4 1943 Wed Y- No **Julian Day** 2430787

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
8597	HD 40292	05 52.7	+1 13	1-25	E103a-O	010	-11.2	18 47	20 31	1	
8598	1916 M	7 19.3	0 26	"	"	"	-11.3	20 37	22 07	2	
8599	62887	7 46.1	19 35	"	"	"	-11.5	22 13	23 41	3	
8600	85709	9 48.5	06 26	"	"	"	-11.7	23 50	01 26	4	
8601	115703	13 15.8	04 13	"	"	"	-11.7	02 43	04 03	1	
	Time to - or fade the load 7^{s}-5^{s}										

Thursday March 4-5 H-No
Very cloudy during early evening — clearing (hazy)
about 11 P.M. — clouded over again 12:30 — very
high N.W. wind

Left focus which was about 23.85"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 02 W	1 13	0	7.56	K2	1½-1½-1½
53 W	0 20	0	7.14	K5	1½-1½-1½ Temp now done 0° at 8h40
2 20 N	19 29	0	7.13	K0	1½-1½-1½ E° 1200 (Error!)
3 03 N	06 15	0	7.62	Ma	1½-1½-1½ sky getting foggy 01.15 -4° 02.30
1 15 N	04 01	0	6.56	A0	1½-1½-1½ cygnus again 01.45 - kaje again 02.50 - 03.15



HD 15753 (K0)

	mc	sc.	su		
Mar. 5	+206	+115	+007	+152	+53

Date..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End

nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS

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Date Sunday, March 7-8, 1942 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T. Sidereal	Ending Time ~~E.S.T.~~	Hour Angle End
8602	HD 30144	04 39.9	+55 36	I-25	E-1	2.5	-08.1	05 31	06 25 2	1 42W
8603	34498	05 12.9	+44 19	"	"	"	-08.1	06 28	08 08 3	2 52
8604	[illegible]	07 31.3	+13 40	"	"	"	-08.1	08 13	09 32 4	3 [illegible]
8605	72143	08 31.7	+11 00	"	"	4	-08.3	09 26	10 06 1	3 24
8606	74873	08 41.5	+12 [illegible]	"	"	"	-08.3	10 09	10 27	3 [illegible]

Ground mark, building seen from Observ. Low in N. mist of Schott. glowing.

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Some obstruction skyline from 238° to 253°(?)

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 42 W	+55 21	1	6.62	F0	1½ 1½ 1½	
	2 52 W	+60 12	1	7.72	K0	1½ 1½ 1½	Image small but ragged
	1 58 W	+13 37	1-2	7.45	M2	1½ 1½ 1½	
	1 32 W	+18 52	1-2	5.98	A0	1½ 1½ 1½	
	1 45 W	+12 20	0	5.77	A	1½ 1½ 1½	

Some Temperature ± 3°F

	mc.	sc.		
7-8	-176	+166	+014	-5 + 70 =

Dept. subject [illegible]

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Date Thursday March 6 1941 No. 2 Julian Day 2430792

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	Test on open sky 2 minutes before & after guide star exposure							12 40	18 50	
1607	N.D. 32518	04 08.7	69 30	1-25"	E 103aO	.008	-31.2C	18 52	23 34	
1608	" 32518	04 08.7	70 04	"	"	"	-31.2C	20 43	24 28	
1609	" 79-17	09 57.7	74 26	"	"	"	-28.8	22 38	00 30	
1610	" 91-75	11 38.5	57 45				-26.0	00 14	01 44	
1611	" 108241	12 25.4	59 9				-24.9	01 41	3 11	

Focus left at 23.82

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
						1½-1½-1½	
	2 .6W	69 33	0	7.58	Ko	1½-1½-1½	← expects after through limit
	2 1.2W	70 50	0+	7.61	Ko	1½-1½-1½	
	2 .4W	71 17	1	7.32	Gx	1½-1½-1½	
	1 .8W	71 13	+0	7.31	F5	1½-1½-1½	Clear;
	1 .3W	73 06	0-1	7.28	K0	1½-1½-1½	Map 0 the dark Wrapping Terminal of
							shutter 3 00
							11m.2 3C +1.7 7 5 W +1.45 -.022 +0.14
							11m.6 3C 12 +0 +1.26

Date Thursday March 11-12/43 -No Julian Day 2430775

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						Set.				
3612	H.D. 109180	12 33 9	41 25	1·25"	E 103a-O	.003	+01·1°C	01 40	02 30	2
3613	" 117281	13 29·2	51 06	"	"	"	+00·7°	02 37	04 05	3
3614	" 140488	15 38·5	13 59	"	"	"	+00·7°	04 13	05 40	4
	Some Tel. trouble after Plate 7h-3m									

sky cloudy during evening - but clearing off about 1 A.M.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	0 53W	+41 11	1-0	6.37	H_3	12-12-12	Focus set 23.74 (?)
	1 37W	+50 52	1-0	6.85	H_3	12-12-12	
	0 31W	+13 21	1-0	7.22	G_2	12-12-12	

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Date Friday Second 12.13.43 11-12 Julian Day 2430296

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
7615	HD 34858	05 13 1	+44 52	I-18	E-1+3-0	5mm	+3.1	18 52	19 33	1	1H
7616	42111	06 03 3	+62 31	"	"	"	+3.0	19 38	19 52	2	1H
7617	[illegible]	[illegible]	+12 43	"	"	"	+3.0	19 57	(21 [illegible]	3	[illegible]
7618	[illegible]	17 35 1	+44 24	"	"	"	+3.2	22 54	00 59	4	[illegible]
7619	114257	13 07 0	+37 57	"	"	"	+02.7	02 04	03 08	1	1H
7620	122675	13 58 2	+46 15	"	"	"	+02.8	02 11	04 49	2	1H

Slight mirroring. Slight haze from fires.
Stars slightly unsteady, moon bright.
Focus started slightly - 26.72 ;

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 18 W	+46 52	1-2	671	F0	1½-1½-1½	Bright sky. (Moon 7° high, 29° E.)
	1 48 W	+42 20	1-2	5.58	A0	2-2	Bright, misty sky. Light haze.
	1 50 W	+42 41	1-2	7.74	"	1½-1½	Clouding from northeast from 5 to 6 hr. 20 to 25 min. (est.) 24°-25°;
	End of 2h 30m set.			Clear 22h.			2h 30m. Two stars; focus satisfactory.
	2 25 W	+40 12	1-2	6.14	F2	1½-1½-1½	Zenith filling in slightly with haze
	1 0 W	+37 45	1-2	7.21	K2	1½-1½-1½	of exposure - faint haze fall over
	1 52 W	+46 03	1	7.64	K5	1½-1½-1½	frequently during exposure, sky opens

1 03 Mist low on horizon to N.E.

Date Saturday March 13-14 - No Julian Day 2430797

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
3621	H.D. 99967	11 25.0	47 12	1.25"	E-103a-O	.038	+03.9°C	00 21	01 45	3 E.W.
3622	" 107904	12 18.9	43 05	"	"	"	+03.7	01 48	02 18	4 1 CW.
3623	" 111164	12 42.2	12 30	"	"	"	+02.6	02 23	02 51	1 1 W.
3624	" 93075	10 39.8	57 26	"	"	"	+02.6	03 02	03 57	2 4 RW
3625	" 129862	14 35.4	12 23	"	"	"	+02.6	04 16	05 12	3
3626	135646	17 07.8	+0 29	"	"	"	+03.4	05 19	06 35	4
	Equatorial to de Flam (low) 7s. 5s									

Saturday March 18-19/43 L-No

Sky very murky during early evening improving about 11 PM. but started filling slowly in again. Sky very thick 1 AM.

Sunday March 19-20/43 11-No

Rain

Cloudy during evening – breaking 11:30 – sky much improved but still hazy 12:15

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
							Focus set 23.70 (-)
	1 25 W	+47 00	1	7.49	K0	1½-1½-1½	hazy
	1 04 W	+42 51	1-2	6.26	F0	1½-1½-1½	
	1 14 W	+12 17	1	6.13	A2	1½-1½-1½	
	4 22 W	+57 15'	1	7.31	F0	1½-1½-1½	* Tried to take exposure on star [illegible]
	2 42 W	+12 16	1-2	7.09	B5	1½-1½-1½	[illegible]
	0 02 W	+03 25	1	6.94	F5	1½-1½-1½	[illegible]

Date Saturday March 6-7 21 - No Julian Day 2419[illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1627	HD 122010	13 57 6	+62 47	1-24"	Eastman	Slit.	-02 0	01 41	03 07	1	0 24
1628	" 138936	15 30 1	+62 00	"	"	"	-03 1	05 13	01 03	2	0 01
1629	" 142844	15 58 4	+61 42	"	"	"	-12 1	09 42	11 32	3	1 21

Cloudy during early evening - breaking 11 00
Scattered altocu upto 1.15 Definitely clear thereafter

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
						Focus at 28.7
0 40 W	+02 35	1	7.35	Ko	1k-1½-1½	
0 06 W	+01 50	1	6.66	A3	1k-1½-1½	
1 21 W	+17 34	1	7.44	Ko	1½-1k-1½	

Date Sunday March 21-22, H - Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
[illegible]	HD 41[illegible]	05 53[illegible]	+47 54	I-25	[illegible]	2.5 2.0	+0.4	19 20	19 [illegible]	4
[illegible]	[illegible]	05 54.0	+47 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19 42	[illegible] 26	1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21 59	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22 [illegible]	[illegible]	3
	[illegible]	[illegible]	[illegible]	[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	I	[illegible]	2 09	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.2	-1.0	[illegible]	[illegible] 57	1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-1.0	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]						

Clouds left afternoon + early evening
most of night mostly cloudy or hazy.

Focus set : 23.75

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
3	1 15 W	+47 54	1-2	5.68	A0	12 1/2	Light fog.
3	2 01 W	+43 58	2	7.24	K0	12 1/2	Fog 20^m
							Sky hazy, will record if under clear sky
11	1 21 W	-19 59	1-2	6.06	A2	5 1/2	Light clouds.
11	1 32 W	-18 19	1-2	6.93	F2	12 1/2	
1	1 51 W	+11 29	2	7.46	K0	1/2-1-1 1/2	Sky not clear for stars
1	2 12 W	11 04	2	7.—	F5	1/2-1-1 1/2	
1	2 32 W	10 40	2	7.—	F5	1/2-1-1 1/2	

Date Monday March 22-23 No-4 **Julian Day** 2430866

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						Set:					
9637	HD 48643	6h 10m 12s	49°	I-25	E 103a-O	.008	-0.7°C	19 10	19 56	3	
9638	" 61630	07 38 14	13 37	"	"	"	-0.8	20 01	21 37	4	
9639	" 74194	08 51 49	04 37	"	"	"	-0.7	21 43	22 [illegible]	1	
9640	" 78760	11 18 2	[illegible] 41	"	"	"	-0.8	22 57	00 [illegible]	2	
8641	103996	12 34.0	[illegible] 18	"	"	"	-0.8	00 49	01 49	5	
8642	123914	13 5[illegible]	08 01	"	"	"	-0.8	01 35	03 [illegible]	7	
8643	141046	15 18 8	05 16	"	"	"	-0.8	03 13	04 [illegible]	1	
8644	151182	16 28.5	12 02	"	"	"	-0.8	04 [illegible]	[illegible] 20	2	
	{ From Yale				British through Yale						

Very strong NW. wind.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
						Focus set 23.77
0 55 W	+ 12 46	1+	6.71	F0	1½-1½-1½	✓ (1) FH 0.48137
1 41 W	+ 13 55	1-2-1	7.30	K0	1½-1½-1½	seeing variable
1 41 W	+ 04 27	2	7.14	G5	1½-1½-1½	Thin cirrus
0 42 W	+ 00 28	1-2	7.26	K0	1½-1½-1½	
0 45 W	- 00 33	2	7.47	K0	1½-1½-1½	
0 [illegible] W	- 07 10	2	7.51	K0	1½-1½-1½	
0 05 E	- 04 03	2	7.15	K0	1½-1½-1½	
0 11 W	- 21 18	2-3	7.44	K0	1½-1½-1½	
					7.35	

Date Tuesday Mar 23-24 Y-L **Julian Day** 2-30807

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
~~8644~~	HD ~~69655~~	5 53 6	~~4~~ 3 22	~~3~~ 45	~~Ilford~~ 50	~~cos~~	+1.8	19 07			
8645	HD 69652	8 129	53 53	"	"	"	+1.8	9 14	10 00	2	30½
8646	HD 81790	9 227	56 11	"	"	"	+2.0	10.04	10 44	3	59 W
8647	HD 85383	9 479	61 36	"	"	"	+2.0	10 47	11 37	4	1

Saturday March 24

Moon rose at 8' after sunset and with distilled water. Films treated to fog if not having left on long. To facilitate drying after treating left in water about 5 minutes.

My estimate of frau reading is 23.74
did not alter it

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
				752	KO ~~1½~~	clouded up at 10
10½	1 30 W	53 45	2-1	664	FO	1½-1½-1½
1	59 W	56 00	2-3	680	F2	1½-1½-1½
	2 25 W	61 22	3	742	KO	1½ 1½ 1½ large light clouds

	mc.	sc.	su.	
Mar. 24	-.021	+.296	+.053	+1.2 2 3

Date Wednesday Sept 25 L-No Julian Day 2430808

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle Mid
8648	HD 94720	10 910	22 54	I 25	L-N2+0	500	+7.5	22 19	23 39	1	
8649	" 101112	11 330	09 26	"	"	"	+7.5	23 43	1 05	2	
8650	" 120602	12 454	05 57	"	"	"	+07.2	01 08	02 08	3	
8651	" 130735	13 388	07 26	"	"	"	+07.2	02 14	03 37	4	
8652	" 138529	14 276	62 27	"	"	"	+07.2	03 47	05 07	1	
8653	" 156697	17 149	06 11	"	"	"	+07.2	05 14	11 48	2	
	From Wolf - Rayet stars list. Use				7^h - 5^h						

Hours at sunset and sky clear all of early evening
Sodium set at 23:66

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	0 36 W	22 23	1	7.31	Te	1-1½-1½	
	1 20 W	07 12	1-2	7.55	Ko	1½-1½-1½	
	0 11 W	01 47	1-2	7.25	Ko	1½-1½-1½	
	0 15 W	5 7 12	2	7.31	Fo	1½-1½-1½ *	Light clouds
	1 30 W	6 2 18	2	7.67	Ks	1½-1½-1½	
	0 23 W	0 6 11	2	6.72	Fo	1½-1½-1½	

Date Thursday March 25-26/43 G.M.T. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8654	HD 35961	05 43.0	51 23	I 25	E-103a-O	Set 00B	+9.8	19 20	21 10	1	+1.17
8655	" C7R24	05 43.9	18 33	"	"	"	+9.8	21 16	21 34	2	+1.3
	Tuscon Seed			Polaroid through base							
8656	H.D. 115709	13 12.8	04 13	I-25	E103a-O	Set .012	+08.2	00 5-2	02 37	3	
8657	" 126531	14 11.4	08 33	"	"	"	+08.1	02 02	04 34	4	
8658	" 134253	15 30.1	24 26	"	"	"	+08.1	04 45	05 47	5	
	Tuscon Seed			Polaroid through Base							

Focus set at 23.62

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	2 17 W	31 29	1	710	G5	1½ 1½ 1½	Haze, clouds,
	2 39 W	58 25	1	705	K0	1½ 1½ ½	Haze, sky darkish
						7 5	Focus a shade too short
							Sky still rather hazy and darkened
							[illegible]
							Focus about 23.62
							[illegible]
							Focus too long
							(Moon [illegible] 23.68-72)

Date Sunday, Dec. 26-27, 1931 H. - No Julian Day 2430812

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle
[illegible]	HD 46442	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+7.7	19 10	19 40		
[illegible]	5 Aur	[illegible]	[illegible]	"	"	"	[illegible]	19 49	20 17	3	
[illegible]	[illegible]	[illegible]	[illegible]	"		"	[illegible]	20 20	21 05	4	2 low!
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	21 54	22 34	1	
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	22 32	23 13	2	
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	23 16	00 58	3	
24125	111889	13 08.4	+19 15	"	"	"	+7.7	01 03	02 33	4	
24126	130025	14 40.8	+19 18	"	"	"	+7.6	02 56	04 26	1	
24127	161193	17 39.1	+21 52	"	"	"	+7.5	04 32	05 34	2	
	From Test-exposure number 7										

Cloudy all day. Cleared off at sunset. Strong NW wind.
Sun only a ½ inch above about to the setting in WNW.

Sun set 7 03.63

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 10 W	+27 36	0-1	6.42	A0	1½-1½-1½	A few cirrus - exposing fair
1 24 W	+38 34	1	6.33	F0	1½-1½-1½	
2 10 W!	+12 46	1	7.19	K0	1½-1½-1½	Sunset clouds for half stands. Shut 22"
1 7 W	+21 38	0-1	6.19	A0	1½-1½-1½	Clouds low horizon
1 32 W	+35 32	0	6.77	F2	1½-1½-1½	Very cirrus and thick to pole
2 -1 W	+47 13	0-1	7.19	K0	1½-1½-1½	" " " " "
1 41 W	+19 20	0	7.48	K0	1½-1½-1½	
1 42 W	+17 07	0-1	7.39	K0	1½-1½-1½	
0 07 E	+21 51	1	7.12	K0	1½-1½-1½	

Date Saturday Mar 27 28 Y-1 **Julian Day** 2428511

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8668	HD 46709	06 29.8	10 04	1-25"	F103a-O	008.	+3.0	19 14	10 25	3	
8669	HD 111591	12 45.3	23 24	1-25"	E-103a-O	.008	+01.0	00 24	02 02	1	
8670	" 123430	14 37.4	21 33	"	"	"	+00.3	02 05	03 23	2	
8671	" 138603	15 29.3	17 29	"	"	"	+0.4	03 26	04 18	3	
8672	" 170137	18 22.8	03 41	"	"	"	+0.5	04 21	05 38	4	
	Focus Ref. outside Focus low $7^S - 5^S$										

...ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	Focus set 23.70 REMARKS
	1 48W	+10 00	0	7.24	K2	½-½-	clouds. clouds + more clouds.
							St. Relords 11^15. clear up.
	1 17W	+23 12	0-1	7.46	K0	1½-1½-1½	sky cleared off again 12.00
	2 46W	+21 20	0-1	7.21	Gs	1½-1½-1½	Focus at 23.74 Kick N.W. wind
	2 50W	+17 21	0-1	6.73	F0	1½-1½-1½	
	0 44E	+03 44	0-1	7.21	K2	1½-1½-1½	hazy

Date Sunday, Dec. 1 1912 H - K Julian Day 2430812

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8573	HD 42351	06 05.1	+18 09	I·25	C-103	Short 038	+1 0	19 12	[illegible]	[illegible]
8574	[illegible]	07 55.0	+20 [illegible]	"	"	"	+1.0	20 42	[illegible]	[illegible]
8575	[illegible]	[illegible]	+17 32	"	"	"	+1.1	[illegible]	[illegible]	[illegible]
8576	[illegible]	[illegible]	[illegible]	"	"	"	+1.0	23 46	[illegible]	[illegible]
8577	103113	11 33.2	+62 02	"	"	"	+1.0	01 03	[illegible]	[illegible]
8578	[illegible]	[illegible]	+35 20	"	"	"	+1.0	02 40	[illegible]	[illegible]
8579	131230	14 20.7	+41 37	"	"	"	+1.0	03 20	[illegible]	[illegible]
8580	174911	18 45.6	+48 29	"	"	"	+1.1	04 01	[illegible]	[illegible]

Left focus at 23.34

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	2 [illegible] W	+18 [illegible]	0-1	7.43	K0	1½ 1½ 1½	
	2 09 W	[illegible]	1-2	7.28	K0	[illegible]	Lens moved.
	2 [illegible] W	[illegible]	1-2	7.27	K0	[illegible]	Cloud — [illegible] 22°-22° Keys stuck. Shut
	2 08 W	[illegible]	1-2	7.31	K0	[illegible]	Keys open.
	1 46 W	[illegible]	1	7.44	G5	[illegible]	[illegible]
	1 11 W	[illegible]	1	6.43	A3	[illegible]	[illegible]
	1 28 W	[illegible]	1-2	7.01	K2	[illegible]	
	1 02 E	[illegible]	1	6.10	A3	[illegible]	

	mc.	sc.	s.w.	m s	m s
Nov-30	+02.4	+44.8	+5.5	-21.8	-0.3
	mc	sc	s.w.	m s	m s
Dec-31	+03.1	+47.6	+02.2	11.0	-0.1
	m.c	sc.	s.w.	m s	m s
Jan-31	+04.1	+49.2	+00.4	-29.3	-0.1
	m.c.	sc.	s.w.	m s	m s
Feb-28	+04.2	+47.7	-02.5	-32.2	00.0

Date Wednesday Mar 31-Apr 1 Y-Ho Julian Day 2430 815

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8681	HD 67827	08 04.7	39 02	1-21'	Eastman O	0.03	+7.0	19 30	21 [illegible]	1	14
[illegible]	[illegible]	08 51.7	39 41	"	"	"	+7.1	21 18		2	

Thursday Apr 1 [illegible]

[illegible]

Clear at 1200 [illegible] Veils N [illegible]

[illegible] Clouds low N [illegible]

Rain [illegible] 3[illegible] AM continued [illegible]

O L.

Mirror Fogged - Had to wait for ~ to [illegible]
Press. Temperature - wet -

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS Focus 23.65
11 12	1 10 W	38 54	0	703	B5	1½-1½-1½	cloudiness -
		54 30	0	704	A2	1½-	n 9. clear up at 0 [illegible]

Date Sat. Apr 3-4/43 Y-L Julian Day 2430818

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8682	HD 56989	07 14.2	2 54	I-25"	E103a-O	008	-1.0	7 20	8 00	1
8683	HD 65066	07 51.8	8 54	"	"	"	-1.0	8 04	8 50	2
8684	HD 77445	08 57.4	7 41	"	"	"	-1.0	8 54	9 44	3
8685	HD 94237	10 47.5	0 21	"	"	4	-1.0	9 49	11 19	4
8686	HD 93075	10 39.8	57 26	"	"	"	-1.0	11 28	01 38	1

{ Focus Test — Cutoff through base

Sunday Eve. 4-5/43 H-No

Cloudy with rain during early evening - clearing 11.45 filled in by 12.30 - still cloudy 1.00

No.

Monday Eve. 4-5/43 L-No

Clearing off by 8.30 but with violent N.W. wind.

" " — Wind still very high at 1.00 — No

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS Focus 2376 ±
	71m W	2 51	1-2	6.84	G5	1½-1½-1½	mage wriskady.
	84m W	8 45	1	6.90	G5	1½-1½-1½	
	73 W	7 29	1-2	7.07	K0	1½-1½-1½	
	58 W	00 06	1-2	7.77	K5	1½-1½-1½	
	3 25 W	57 14	1-2	7.31	F0	1½-1½-1½	Type. Sky slowly thickening
						7.5	midnight on
							Cloud at 2 30 sky completely thick
							nc sc SW E ENE
							Opt. ax. +06.8 +53.6 -5.5 -21.8 00.0

Date Sunday night 6-7, 1942 14-15 **Julian Day** 2430821

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5557	HD 62437	07 39.9	+02 39	I-25	E-103a-E	2.28	-5.5°	19 24	20 14	2
5558	63077	08 05.8	+54 46	"	"	"	-2.0	2, 19	2, 43	3
5559	Vat 51	11 27.7	+20 22	"	"	"	-1.8	2, 14	-2 36	4
5560	73151	12 47.3	+14 21	"	"	"	-3.9	-2 54	-3 26	2
5561	104706	11 51.1	+04 26	"	"	"	-3.8	01 35	02 37	3
5562	122064	13 59.1	+61 59	"	"	"	-3.8	01 39	03 01	4
5563	109284	12 32.2	+35 42	"	"	"	-3.8	03 05	04 21	2
5564	168697	18 16.0	+29 37	"	"	"	-3.7	04 27	05 15	2
	From last -									

Latitude station Obs. = 7° - 5"

Frames out 23.80

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 [illegible] W	+02 33	0-1	6.62	F0	1½ 1½ 1½	Fine
	1 03 W	-5[illegible] 38	1	6.92	K0	1½ 1½ 1½	1 Fine (Strong)
	1 [illegible] W	+[illegible] 11	1-2	7.53	K2	1½ 1½ 1½	Fine
	2 26 W	-60 16	2	7.[illegible]	K[illegible]	1½ 1½ 1½	Fine
	2 22 W	+61 51	1	7.06	G5	1½-1½-1½	plates all fine but stronger than needbe. Fine (Strong)
	1 47 W	+61 47	2	7.58	K5	1½-1½-1½	Too Strong
	1 23 W	-58 34	2-3	7.57	K2	1½-1½-1½	Fine
	0 21 E	-20 37	2	7.14	K0	1½-1½-1½	Fine

Focus very good.

	MC	SC	SW		
Ch. 5	+09.1	+5.7 7	+07 7	-1 7	+0 1

Date Thursday Apr 8-9 Y-L **Julian Day** 2430823

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
8695	HD 84812	9 42.6	66 04	J 45	F1010-0	0.8	+4.0	9 17	9 55	2
8696	HD 82189	9 25.4	72 39	"	"	"	+4.0	10 00	10 30	3
8697	HD 95233	10 54.6	52 02	"	"	"	+4.0	10 36	11 36	4
8698	AD 100030	11 26.5	48 29	"	"	"	+4.0	11 42	00 26	2
8699	124681	14 09.3	63 45	"	"	"	+4.0	00 38	01 [illegible]	3
8700	103279	12 33.5	50 12	"	"	"	+4.1	01 30	02 59	4
8701	15 1681	16 [illegible]	79 06	"	"	"	+4.0	02 37	03 39	1
8702	[illegible]	16 [illegible]	61 11	"	"	"	+4.0	04 41	05 11	2

[illegible] Yard [illegible] Objective [illegible]

Sunday Apr 10-10 Clear all evening. Light variable winds. Seeing poor. Wind increasing to strong [illegible] 1.00

Wind continued all night. Seeing [illegible]

aldebaran under moon-watch time p182.
$9^h 49^m 29^s$

cleared $10\ 5^{D}_{A}\ T$ = 0244 EST

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	57 W	65 52	1-2	6.52	FO	1½-1½-1½	
	1h 49 W	72 30	1	6.24	F5	1½-1½-1½	
	56m W	51 47	1-2	7.30	G5	1½-1½-1½	
	1 43 W	43 13	2	7.16	G5	1½-1½-1½	
	[illegible]	[illegible]	2	7.21	M4	1½-1½-1½	
	0 14 E	[illegible]	3	8.44	M0	1½-1½-1½	
	[illegible] W	[illegible]	2	7.38	M1	1½-1½-1½	
	1 03 W	[illegible]	3	6.70	F0	1½-1½-1½	
						0.5	

	mc.	SC	SW.	mW	SW
Apr. 9	+10.0	+59.3	-09.5	-19.3	+0.1

183

Date Saturday 10-11 /43 Y-L Julian Day 2430825

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9703	HD 72561	08 28.5	5 06	I-1	103a-O	.008	+1.0	7 30	8 40	3	
9704	HD 87600	10 03	11 14	"	"	"	+1.0	8 44	9 24	4	
9705	HD 90760	10 50.9	22 54	"	"	"	+1.0	9 28	10 38	1	
9706	HD 100623	11 49.9	10 59	"	"	"	+1.0	10 42	11 50	2	
~~9707~~	HD 114763	13 09.7	17 17	"	"	"	+1.0	11 55	01 15	3	
9707	" 130960	14 45.7	06 28	-	-	-	+1.0	01 20	02 33	1	
9708	" 135482	15 35.4	16 23	-	-	-	+1.0	02 41	03 41	2	
9709	" 161794	17 47.2	01 20	-	-	-	+1.0	03 46	05 00	3	

Sky Haze Cirrus through Slit

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		COMP	REMARKS Focus 23.75
	65 W	4 56	0	7.13	KO	1½-1½-1½	
	17 W	16 02	1	6 56	FO	1½-1½-1½	
	41 W	22 39	1	7 31	K2	1½-1½-1½	
	74 W	26 -5°	1-2	7 40	KO	1½-1½-1½	
	1 03 W	13 01	1	7 36	B5	1½-1½-1½	* plate discarded. Beautiful image!
	0 47 W	-00 03	1	7 31	K2	1½-1½-1½	
	1 30 W	12 14	1	7 26	G5	1½-1½-1½	
	1 11 W	01 01	1	7 34	K0	1½-1½-1½	
						7-5	

* Black in lower background

185

Date Sunday April 11-12, 1942 U.T. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
5710	HD 83981	09 36.7	-35 32	I-25	E103a-J	008	+5.2	21 30	22 36	3	1h

Clear all day. Clouds at sunset, alternately storing mt + clouding after dark.

p. 186

Focus set 23.68

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	2 57	+35 20	1 0	6.37	F2	12 12 12	Light clouds. Star about pos. 21 52 +22 10. Then fairly clr, but seeing very bad. Thick again 23 15 Light clouds. Wind at 23 50
							mcl. sc. SW NW SW
							Op-12 +12.0 +1 027 -11 2 +11 8 10.2

187

Date Monday April 12-13, 1943 H. No Julian Day 2430827

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
2711	HD 77464	9 01.9	+21 42	I-2	2312-0	.08	46	21 16	2 56	4
	[illegible]									

Tuesday April 14-15 Y -No
Cloudy until evening during day - clear during evening - trying to clear off 1:00 - started again up to 2.30 - finished at 3:00 - exposing 1 hr. →

Cloudy all over during day; cloudy early evening.

p.188

Sum for 23.75 —

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
[illegible]	[illegible]	+2. [illegible]	1.2	6.0?	A0	[illegible]	Clouds 21[illegible]; hazy, [illegible]
							[illegible] clouds off.
							Lib. observing signs of [illegible] by 01:30 —
							[illegible] thick again by 00:30 — ½
							Apr. 13 m.c. +12.7 s.c. +01 09 0 -12.3 -10.1 +1.3
							Apr. 14 m.c. +13.3 s.c. +01 05 0 -13.8 -10.7 +1.5

Date Wednesday April 14-15 '54-No Julian Day 2430829

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8712	H.D. 150580	16 36 9	25 03	1-25	L-103a-O	set. .018	-03.7°C	03 30	04 32	1
	Iron flat - setting time box 7 - 5									

In detailed weather report to front of page.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
...	1 E7 N	24 57	1-0	7.29	K2	1½-1½-1½	Focus set 22.81 = [illegible]

191

Date Thurs Apr 15-16 Y-L Julian Day 2430230.

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle
8713	HD 63435	7 43.8	04 34	1-25"	E103a-O	008	-1.5	7 32	8 22	2	1.5W
8714	" 78712	9 04.6	31 23	"	"	"	-1.6	8 26	9 26	3	1.3W
8715	" 82685	9 28.4	73 32	"	"	"	-1.8	9 32	10 16	4	0.8W
8716	" 95499	11 14.8	67 38	"	"	"	-1.4	10 25	11 15	1	0.3W
8717	" 103799	11 52.1	40 55	"	"	"	-1.7	11 20	12 10	2	
~~8718~~	" 117291	13 23.7	15 13	"	"	"					

~~Hazy West~~ ~~Clear~~ ~~Hazy~~ V

Friday April 16-17, 1943 17

Cloudy - Hazy in Lafayette, Bright early morning. Party clearing 20[30]; clear clear 1-T top for second time from ~~the~~ Till 22[15] Hazy - Hazy

Focus 23.77 ±

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	1 51 W	4 26	2	7.07	GO	1½-1½-1½	
	1 35 W	31 10	2-3	var	MC	1½-1½-1½	
	2 20 W	73 20	2	7.3?	FO	1½-1½-1½	took no 6.
	73 W	67 35	2	7.31	KO	1½-1½-1½	
	1 31 W	40 40	2	6.96	FS	1½-1½-1½	~ ~ light clouds. Falling [illegible]
				7.29	FO		Eyepiece. Worked with 2. [illegible]
							[illegible]
							Obj-No S +1 17.5 M -1.8 -1.9 T4

193

Date Sat Aug 17-18 Y-L **Julian Day** 243+932

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Filt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
8718	HD 71153	8 21.0	69 39	I-25	F103-0	.00.8	+3.4	7 36	8 26	3	W
8719	HD 82626	9 31.2	67 43	"	"	"	+3.3	8 30	9 10	4	W
8720	HD 82550	9 34.2	78 36	"	"	"	+3.2	9 14	9 50	1	E
8721	HD 97501	11 08.1	41 38	"	"	"	+3.0	10 02	11 02	2	W
8722	HD 99867	11 25.0	47 12	"	"	"	+3.0	11 05	11 15	3	W
8723	HD 117201	13 38.7	65 13	"	"	"	+5.1	11 13	11 38	4	W
8724	HD 117201	13 38.7	51 06	"	"	"	+3.2	11 [illegible]	01 [illegible]	1	W
	Bare Sky			Cloudy - Poor [illegible]							
		Sunday Night		18-19 1943 H							
	Light clouds to East		Storm	ready			Hazy - Hi. Humidity				
	Rolling fog at 11 45										

Focus 23.70

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comb.	REMARKS
21 W	+69 29	3-2	7.44	K0	1½-1½-1½	Finder light not working
59 W	67 31	3	7.46	K5	1½-1½-1½	
35 W	72 23	3	7.19	G5	1½-1½-1½	new Emulsion used Dec/42
75m W	41 22	3-2	7.49	K0	1½-1½-1½	"
2 02 W	46 54	2	7.49	K0	1½-1½-1½	" Fine
0 52 W	65 06	2	7.29	F0	1½-1½-1½	" Fine
1 51 W	57 53	2	6.85	A3	1½-1½-1½	Lightclouds Fair
					75	Mostly thin Cir at 3.1Φ altitude

Date Sunday April 18-19/43 -No Julian Day 2430538

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8725	HD 156284	17 11.6	23 52	1.25"	E103a-O	sat. .018	+018°C	12 34		2

Sky improving 1:00 — getting thick again 1:30 — 2:30 — clearing off 2K

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	+23 47	1	7.17	K2	1k	Focus set 23.71

Sky thickening up shortly after beginning of exposures after 02 55

	m.c.	S.E.	S.W.	M.T.W.	S.T.N.
Apr. 20	+18.0	+01 11.9	-17.6	-02^{s}.1	+0^{m}.4
	m.c.	S.E.	S.W.		
Apr. 21	+19.0	+01 13.4	-21.4	-00^{s}.9	+0^{m}.4

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Date Wednesday April 21 '32 -No Julian Day 2430836

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8725	H.D. 153312	16 53 6	24 33	1-25"	F-103a-O	Sat. .008	+01 8°C	03 25	04 53	3
	Spectral - on Fe & Hartmann				7s-5s					

Sky Thick during early evening - light clouds 1:00 — clearing 2:30

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							Focus left at 23.71 ±
2.453	1 37 W	+24 28	1-0	7.36	K0	1½-1½-1½	Fresh N wind

Date Thurs Apr 22-23 43 Y-L. **Julian Day** 2430 837

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8726	HD 72308	08 36.5	10 09	1-25	[illegible]-0	008	+13.0	7 50	8 30	4	
8727	HD 93075	10 39.8	51 26	"	"	"	+13.0	8 38	9 28	1	
8728	HD 117710	13 27.0	42 36	"	"	"	+12.9	9 38	10 10	2	
8729	HD 118295	13 30.9	44 43	"	"	"	+12.9	10 15	10 45	3	
8730	HD 118741	13 33.7	51 13	"	"	"	+12.9	10 49	00 09	4	
8731	" 121146	13 44.6	68 49	"	"	"	+12.8	00 15	01 01	1	
8732	" 122562	13 53.3	51 27	"	"	"	+12.9	01 07	01 41	2	
8733	" 141456	15 44.1	32 02	"	"	"	+12.9	01 37	02 17	3	
8734	" 154610	17 01.4	04 53	"	"	"	+13.2	03 02	04 04	4	
	Horiz Test			Obtuse through trace							

Focus set 23 58

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	1 46 W	+9 59	1-2	6.58	A0	1½-1½-1½	There were water streaks on mirror when I opened up.
	28 W	57 13	2-3	7.21	F0	1½-1½-1½	
	1 35 E	42 25	3	7.15	K0	1½-1½-1½	
	64 E	44 30	3	6.77	A5	1½-1½-1½	
	17 W	51 01	3	7.77	K5	1½-1½-1½	½ R Looks like close double 2" ± red + blue ?
	0 53 W	6 37	3	7.44	K0	1½-1½-1½	↑ 1970 64-79 1.90 120°
	1 14 W	51 15	2	6.65	A0	1½-1½-1½	
	0 56 W	31 15	3-2	7.74	K5	1½-1½-1½	
	1 03 W	01 49	2	7.74	K5	1½-1½-1½	
						7.5	focus ok

Date Good Friday, April 23-24, 1943 M.S. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8735	HD 77349	08 52.7	+54 41	I-25	E 103a-O	5.7 0.08	46.6	20 07	20 37	1	1.1
8736	HD 93875	10 39.8	+57 26	"	"	"	46.3	21 29	23 09	2	1.1

Haze and light clouds end of afternoon.

Focus at 23.52 Temp +15.8 (both stages in)

Fruitless attempt to entirely free central star (in fly wire at bottom of wire?) needle would reasonably be omitted under.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 25 1	+54 31	0-1	5.74	A2	1½ 1½ 1½	Very hazy. Stars poor quality. Thick. Not turning out
	2 15 1	+57 14	0-1	7.31	F0	1½ 1½ 1½	Bitter. Haze at start. Haze cleared by 23. Good at 23[30]
							Master wire fell off from the star in the light. Its magnitude [illegible] in the wire system. Temp 51° =

Date Sat Oct 24-25 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8737	HD 84321	09 52.6	84 24	T-25"	E103a-O	008	+17.7	8.04	9 14	
8738	HD 94747	10 51.2	26 02	"	"	"	+17.6	9 24	10 54	
~~8739~~	HD 114724	13 07.3	24 48	"	"	"	~~+17.6~~	10 59		

Focus 23 50

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp		REMARKS
9 14	66 W	84 11	1-0	7.48	KO	1½-1½-1½		Trunk fr. star finder + focus hazy
9 54	1 52 W	25 50	1-0	740	KO	1½-1½-1½		
	~~24 34~~		0	746	KO	1½		Thick. Mts not left.

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Date last Sunday April 25-26 1925 U.N. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8729	HD 82678	9 28.3	+23 53	I - 24"	E-103a-O	5.7 / 5.8	+14.2	19 52	2 38	3	
8730	99501	11 28.1	+11 38	"	"	"	+14.2	21 35	22 45	3	
8731	111 [illegible]	12 42.2	+ 12 32	"	"	"	+14.2	22 49	23 21	4	
8732	116317	13 05.0	+ 27 57	"	"	"	+14.2	23 29	00 12	1	
8733	127065	14 24.1	+36 37	"	"	"	+14.0	00 46	02 06	2	
8734	133207	15 54.0	+39 58	"	"	"	+13.9	02 10	04 00	3	
8735	174481	18 45.6	+48 39	"	"	"	+13.9	04 06	05 32	4	
	Dome Test - outside shutter open - 7[s].5[s]										

Cloudy most of day. Thinning out in evening. 20%

Forecast 7 23.55

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 46 W	+23 -3	1	7.61	K5	1½ 1½ 1½	Light haze.
	1 30 W	+41 24	1-0	7.49	K0	1½ 1½ 1½	Star trail.
	1 32 W	+12 15	1	6.13	A2	1½ 1½ 1½	
	1 31 W	+11 09	1-0	7.21	K2	1½ 1½-1½	
	1 37 W	+36 29	1-0	7.19	K0	1½-1½-1½	Cirrus haze
	2 01 W	+39 52	0	7.44	K0	1½-1½-1½	
	0 16 E	+18 43	1	6.10	A3	1½-1½-1½	

Date Monday April 26 27/43 -L- No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Exposure Length End
8744	HD. 101545	11 39 1	25 47	I-25	E-103a-O	Slit .005"	+10.0	20 18	22 38	1
	Some Fast			Cirlede	Hunt. Area					

Power set at 23.61 End plug out.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible]	0 ^{2c} W	25 34	0	737	K5	1½·1½·½	Trace from 21 ^{30} on Fluid at 22 ^{08}
						7-5	Sky remains misty thick & cloud up at 23 ^{00}

Sky still very thick 1.00 with no signs of clearing - No

	NC.	SE.	SW.	MTW S	STW M
Apr. 27.	+24.0 m.2.	+1 19.9 S2.	-31.0 SW.	+6.8	+0.5
Apr. 28	+24.8	+1 20.6	-34.4	+7.9	+0.5

Date Wednesday, April 28-29 1943 H-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle
3747	HD 108471	12 23.4	+09 10	I-25	E-103a-O	2.5 cm	+7.6	22 21	23 45	2	1 28 E
3748	119031	13 36.9	+39 35	"	"	"	+7.7	22 48	01 18	3	1 48 W
3749	138936	15 30.1	+02 00	"	"	"	+7.6	01 28	02 18	4	0 54 W
3750	146603	16 12.0	+67 24	"	"	"	+7.6	02 28	03 50	1	1 46 E
3751	159126	17 27.3	+38 58	"	"	"	+7.6	03 56	04 42	2	1 22 W
	Focus tel. outside thru box — 7 S - 5 E										

Friday April 30 - May 1 1943 H-L

Cloudy all day early evening. Clouds occasionally broken later.

Partly cloudy all day. Clouds on third around sunset.

Sun's ant 23.64

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 28 W	+6 7 57	1-2	7.42	K0	1½-1½-½ Lost 1-b / 22[40]- ; [illegible]
	1 48 W	+28 20	1-0	7.36	K0	1½-1½-1½ Used to get H.O. 127 #67 [illegible]
	0 54 W	+21 51	1-0	6.66	A3	1½-1½-½ [illegible]
	1 46 W	+27 19	1	7.28	K0	1½-1½-1½ H.O. 127 #3
	1 22 W	+38 54	1	6.79	F2	1½-1½-1½

	m.c	S.C.	S.H.	[illegible]	[illegible]
Oper. 30.	+26.2	+1 22.5	-39.7	+10.2	[illegible]

Date May 1-2 Saturday Y-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8752	HD 88231	10 05.3	37 53	J. 25	5102.0	008	+7.0	7 55	8 45	3	55W
8753	HD 103500	11 500	37 20	"	"	"	+7.0	8 49	10 19	4	55W
8754	HD 115709	13 138	4 13	"	"	"	+7.2	10 25	11 06	1	57W
8755	HD 122742	13 586	11 16	"	"	"	+7.0	11 09	00 09	2	1W
8756	HD 127043	14 [illegible]	33 [illegible]	"	"	"	+7.0	00 16	01 56	3	2W
8757	HD 154331	17 001	60 47	"	"	"	+6.9	02 01	[illegible]	4	13W
	Venus [illegible]			Plates [illegible]							

Focus 22 65

Ending Time EST	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
8 45	55 W	37 41	1-2	7.14	Ko	1½-1½-1½	
10 3	45 W	37 04	1-2	7.89	Mb	1½-1½-1½	Seeing very variable Sometimes
11 15	8m W	4 00	1	6.56	A0	1½-1½-1½	
00 01	27 W	11 05	1	7.14	G5	1½-1½-1½	
0 10	50 W	28 22	1	7.45	A0	1½-1½-1½	
0 40	(23W)	60 42	1	7.24	Ko	1½-1½-1½	
							May 4/43 M.T.W. -16.7 S.T.W. +0.00 W.B.E.N.

Date Tuesday Friday 4-5 1943 H-No **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8758	HD 22780	03 29.1	-40 24	I-25	E-[illegible]	.04	+11.9	20 03	21 09	1	
8759	90717	11 25	-47 12	"	"	"	+11.8	21 12	22 08	2	"
8760	[illegible]	[illegible]	[illegible]	"	"	"	+11.3	22 12	23 12	3	
8761	[illegible]	[illegible]	[illegible]	"	"	"	+11.8	23 15	00 43	4	[illegible]
8762	123485	14 57.6	+34 56	"	"	"	+11.7	00 47	02 27	1	[illegible]
8763	135646	17 17.8	+00 29	"	"	"	+11.7	02 32	03 42	2	[illegible]
8764	179133	19 11.4	+65 49	"	"	"	+11.7	03 49	04 19	3	[illegible]
	Same Test	Field			Exp. 7	8.5	$				

Exposures set 2 (or 1) at 2 from 22.58

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
2 03 W	+40 13	1-2	7.2	F2	1½ 2 1½	Bright unfocused
1 11 W	+46 38	2	7.49	K0	1½ 1½ 1½	
0 15 W	+47 56	2	7.34	K5	1½ 1½ 1½	Image small but wobbly.
2 04 W	+19 21	2-1	7.44	K0	1½-1½-1½	
1 58 W	+3 48	2-1	7.43	K0	1½-1½-1½	Seeing variable
1 04 W	+30 27	0	6.94	F5	1½ 1½-1½	Very gusty image at 10-o'clock ~3 20
0 19 E	+45 55	1	6.25	A2	1½-1½-1½	to be pattern fairly steady

	m.c	s.c	s.u	m.s.u.	s.s.u.
May 6	+30 5	+01 26 8	+56 7	-18 7	20 0

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Date Thursday, May 6-7/43 No-L **Julian Day** 2430851

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
3765	H.D 89389	10 13 8	+54 18	1-25"	E-1 3a-D	2.7 mm	+19.6°C	20 13	21 03	1	1 25 h
3766	101651	11 36 4	+55 43	"	"	"	+19.5	21 07	23 51	2	2 21
	Equatorial - tied through Coel - 7°.5°										

Mostly cloudy evening - clearing at midnight

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							Temp set 13.2 - [illegible] Focus set 23.47:
	1 25 W	+54 05	1-2	6.94	F8	1½-1½-1½	
	2 01 W	+55 31	2	7.58	K5	1½-1½-1½	light fog 21:0 - lovely getting thicker 22:30 - clear for 23:00 - no sign of clearing 23:45 - closed up!
							M T W S T F S 9½, 8/43 -2.0 +0.2 RESET

Date Saturday Mar. 8-9 1942 H-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9767	HD 99965	11 18 2	+ 0 41	I-25	[illegible]	[illegible]	+11.0	20 09	21 30	3	[illegible]
9768	[illegible]	11 32.3	+31 12	"	"	"	+11.0	21 39	22 [illegible]	7	[illegible]
9769	[illegible]	13 24.1	+41 57	"	"	"	+11.0	22 49	00 52	1	[illegible]
9770	136693	16 16.7	+25 20	"	"	"	+11.0	01 56	02 30	2	[illegible]
9771	156593	17 13.4	+23 13	"	"	"	+11.0	02 34	04 10	5	[illegible]
	Spectrum of Arthur Cox				7h-5m						

Clouds + rain most of day clearing around sunset. M
stay [illegible]

218

Sun at 23 dg

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 51 W	+1 28	2-1	7.26	K0	1½-1½-1½	
	2 09 W	-32 57	2-1	7.42	K2	1½-1½-1½	
	2 19 W	+1 21	2-1	7.54	K0	1½-1½-1½	
	1 59 W	+23 12	0-1	7.44	K2	1½-1½-1½	seeing variable
	1 43 W	+23 10	1	7.60	K2	1½-1½-1½	Optical to UC ?

			MC	SC		SW	MT	ST
May	11	12	+26.0	+1	29.8	-1m 14s	-01.3	+0m.3

219

Date Wednesday May 12-13/43 Y-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
8772	HD 90472	10 21.6	19 52	I-25"	F103a-O	.008	+13.6	8 15	9 45	4	
8773	HD 108651	12 23.8	26 27	"	"	"	13.5	10 05		1	

F = 23 53'

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	2 25 W	19 39	0	7.29	KO	1½-1½-1½	clouds at 9 45 exchanging poor seeing
		26 13	0	6.77	A3	1½	clouds
							Sky breaking again 12 30 - scattered clouds up to 3.00 - then it filled in solid
							No.

221

Date May 13-14 Thurs Y- ~~A~~ L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
8773	HD 93075	10 39.8	57 26	I-25"	E103a-O	set 008	+11.0	8 17	10 14	2	30 W
8774	HD 112486	12 51.9	54 39	"	"	"	+11.0	10 20	10 40	3	N
8775	HD 117200	13 23.7	65 15	"	"	"	+11.0	10 45	11 35	4	W
8776	HD 117201	11	65 13	"	"	"	+11.0	11 38	00 13	1	30 W
8777	HD 145604	16 07.2	56 06	"	"	"	+11.0	00 54	02 38	2	A
8778	HD 157967	17 21.9	59 00	"	"	"	+11.0	02 43	04 13	3	15 W
	Yerkes Star			Outlet through base							

SrS Wobble hand apparently — 0.5 m 222

Focus 23.60

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
10 14	2 40 W	57 13	1-2-0	7.31	FO	1½-1½-1½	clouds clouds and clouds (center bump 9 30 ±)
10 40	52 W	54 24	1	5.90	A2	1½-1½-1½	
11 15	77 W	65 02	1-2	6.94	FO	1½-1½-1½	
1	2 30 W	65 02	1	7.29	FO	1½-1½-1½	
2 3	1 37 W	56 00	1	7.59	K0	1½-1½-1½	
2 18	1 57 W	16 50	1	7.64	M0	1½-1½-1½	
						1-5	May 14 m.T.W. S -0.9 S.T.W. m +0.3 W.B.E.N.

223

Date Sunday, May 14-15 1892 H.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
3779	HD 99787	11 26.0	+47 12	I-25	E-11 Ilford	3.5"	+12.6	20 15	2: 45		4
3780	105811	12 26.4	+59 19	"	"	"	+12.7	21 5	2: 30		1

Sunday, May 16-17 1892 H.L.

Clear, cool afternoon with mild SW wind. Temp 74°F at 19h 0m. Atmosphere seems very dry. Moon not due for about 4 hours. Plugged a gimbal hole. Lost about 5m time and 2 cubits of fog in mirror. At 22h 0m, am drying out gimbal. Put on fresh mirror, 6:45 pm. Not at work hard fogged.

Left gimbal hole in. Still warm. Mild SW wind. Lighting up lake

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 28 W	+46 58	1-2	7.4	K9	1½ 1½ 1½	Much haze most of time
17[30]	2 [12] W	+59 04	1-2	7.22	15.9	1½ 1½ 1½	Considerable haze at beginning of run.
							Mated until 1[00] Sky thickened
							Mint Stone

Date Sunday May 16-17 H NO Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3151	HD. 11-1046	1 58 8.05 16	1-25"	E403a-D		Set .008	+18.0C	01 31	03 11	2

Wednesday May 19-20/43 Y -No

Cloudy during night upto 02.30 E.S.T. when sky showed some signs of breaking - scattered clouds thinning progressively thinner upto 04.00

No.

Checked mirror 2½ 12.30 – found to be O.K. p. 226
a few more spots – tried to [illegible] by
S.T.W. believed to be a [illegible] of dichroism
by Longoria & it [illegible] to be [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	2 30W	+05 11	◎	7.18	Ko	1½-1½-1½	Focus set 23.43 – Cumulus with to find the comp [illegible] Murky clouds only a chance to be. moving in from W. 23.10 too little time left to attempt another exposure

		MC	SC	SW	MT	ST
May 17	12	+37.3	+33.2	−1 46.8	−25^{s}.0	+0.2^{m}

Rest.

Adv. 1^{m}, added cut +1.0

Date Friday Night 21 22/42 H L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5732	HD. 159257	17 17.1	16 50	I-25	E-103.0	Ks .009	+12.0	0n 33	0n 43	3
5733	{ IRC098	19 48.5	24 55				+11.3	0n 57	1n 01	1
	{ Standard			Calibration		V	Plate			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							Rain in the afternoon and early evening. Cloudy late evening breaking with a fresh N. wind. Focus set at 23.60
	1 25 W	1° 49'	0-1	7.94	Mo	1½-1½-1½	
	0 25 E	25 00	1	6.35	Fe	1½-1½-1½	
						7.5	

Date [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8784	AD 99267	11 [illegible]	-47 [illegible]	I-25	[illegible]	2mm 208	+17.8	23 [illegible]	[illegible]	1
8785	" 113710	12 27.0	-43 [illegible]	"	"	"	+17.7	23 10	00 10	2
8786	" 132870	14 [illegible]	+22 [illegible]	"	"	"	+17.7	23 45	01 45	3
8787	" 142831	15 [illegible]	+3 [illegible]	"	"	"	+17.5	01 [illegible]	[illegible]	4
	Moon Set			Cobalt through Hoe						
				Sunday, [illegible] 23-24-45 No						
				Shifting towards west [illegible]						
				[illegible]						
				[illegible]						

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	2 20 W	+46 57	1-2	7.49 KO	1½ 1½	
	1 53 W	+42 23	1-2	7.5 KO	1½ 1½	
	1 25 W	22 15	1-0	7.45 1/16	1½ 1½ 1½	
	0 54 W	39 49	1-0	7.95 1/16	1½ 1½ 1½	
					+5°	

		NC	SC	SW	MT	ST
May 25	12	+40.7	+25.5	-2 19.5	-22.9 s	+0.4 m

Date Wednesday May 26-27 Y - No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
8788	HD 109980	12 33 9	4. 25	I-25	Eastman O	.009	+17.5	8 26	9 00	1	: W
8789	HD 111164	12 42 2	12 30	"	"	"	17.6	9 04		2	

Focus not changed.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
9 00	21 W	41 10	2	6·37 A3	1½ - 1½ - 1½	
		~~+2 15°~~	~~2+0~~	~~6+3 A3~~	1½	~~heavy haze~~

233

Date Thursday, May 27-28 Y- No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
8789	HD 90967	11 25.0	+27 .2	I-25"	F-03 D	008	17.5°	8 30			

Focus not changed.

Ending Time B.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comb	REMARKS
		46 59	2	7.49 KO	1/2	clouds almost from start
						Sky breaking 22.00 – scattered clouds thinning out up to 01.00 – suddenly filling in solid 01.15 – still solid 04.30
						No.

	h	MC	SC	SW	MT	ST
					s	m
May 28	12	+41.2	+21.4	+2 26.9	-17.6	+0.5

235

Date Sunday May 28-29 1932 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3734	UD			I-25		2mm				

Focus set by [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1h 51m W						
	1 17 W						
	0 58 W						
						7.5	

237

Date Sat Jan 29-30 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	HD93075	10 39 9	5° 26	I 26"	2 mm C	.006		9 40		
5794	HI 117281	13 24 2	51 06	"	"	"	19.0	9 39	10 49	2.0
5795	HI 122866	13 59 3	51 27	"	"	"	19.1	10 53	11 29	41W
5796	HD 130093	15 05.1	50 27	"	"	"	18.9	11 33	00 49	3.0
5797	[illegible]			[illegible]	[illegible]					

Form 6-1 23 47

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
			1-0	731 50	clouds	
10 50	1 32W	50 51	0-1	605 A3	1½-1½-1½	
2°	1 41W	51 15	1	605 A0	1½-1½-1½	
	1 30W	50 16	1-2	707 40	1½-1½-1½	Stop for end of exposure by closing shutter. Waiting until 2.08 to close up shop will take
					7 5	

Date Sunday Nov 20-21/43 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
S 707	H.D. 156284	17 11·6	23 52	1-25"	E-103-O	Sat. 998	+19·7°C	00 46	02 54	
S 708	" 159925	17 32·2	37 22	"	"	"	+18·2°C	02 10	03 40	

Focus at beginning

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	1 25 W	−22 48	2	7.17	K2 1½-1½-1½	Sky very cloudy during evening. Very
	2 37 W	+27 26	2	7.15	K0 1½-1½-1½	Sky cloudy in E. Sky cloudy in W.

		MC	SC	SW	MT (s)	ST (m)
Jun. 2	12	+42.2	+15.9	+06.6	−06.8	+0.6

Reset (gaining about 4ˢ a day)

241

wednesday.

Date June 2-3 Y-No **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8789	HD 229867	11 25.0	+47 12	7-24"	Eastman 40	.08	+25.9	8 40	10 00	E 2 W
8800	HD 120874	13 47.1	59 02	"	"	"	26.0	10 16	10 55	3 W
8804	HD 116436									

H-No changed to section after dawn.

Thursday June 3-4/43

Sky looking 00 00 E.S.T. but fading in again after few minutes — brightening again 00 45 — thickly scattered clouds up to 01-30 — sky improving steadily thin & fair to ok in nearby & round horizon — steadily fading in again 02 30

No.

Forecast 23.37

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
: :	3 58 W	+46 59	1	7.49	K0	1½-1½-1½	some clouds.
10 55	1 30 W	58 48	1	6.36	90	1½-1½-1½	nothing after $10^{h}55^{m}$
				-	"		

		MC	SC	SW	MTW	STW
					s	m
Jun. 4	12	+42.1	+13.5	-04.5	-03.7	+0.6

243

Date Friday June 4-5, 1943 S-N-H **Julian Day**

Plate No.	Object	R.A. 1900 42	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3801	NGC 5904	15 15.4	+02 19	Jantzen	I-103-O			21 04	21 [illegible]	
3802	5466	14 03.1	+28 48	–	–			21 17	[illegible]	
3803	5053	13 13.6	+18 01	–	–			21 34	[illegible]	
3804	5904	15 15.4	+02 19	–	–			21 48	21 52	
3805	5466	14 03.1	+28 48	–	–			21 58	22 [illegible]	
3806	5053	13 13.6	+18 01	–	–			22 13	[illegible]	
3807	5904	15 15.4	+02 19	–	–			22 40	22 44	
3808	5466	14 03.1	+28 48	–	–			22 53	23 03	
3809	5053	13 13.6	+18 01	–	–			23 08	[illegible]	
3810	5904	15 15.4	+02 19	–	–			23 24	[illegible]	
3811	5466	14 03.1	+28 48	–	–			23 35	23 46	
3812	5053	13 13.6	+18 01	–	–			23 52	[illegible] 02	
3813	5904	15 15.4	+02 19	–	–			00 19	00 23	
3814	5466	14 03.1	+28 48	–	–			00 28	[illegible] 40	
3815	5053	13 13.6	+18 01					00 46	1 [illegible]	
3816	5904	15 15.4	+02 19					1 [illegible]	1 [illegible]	

Strong west wind.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Focus on δ Virginis. Seeing looked poor. Not guided - too light to find guide stars.
	0 01 E				Clouds. Closed dome
	1 03 W		very poor		Bright guide stars.
	0 51 E				Very strong NW wind.
	1 29 W		poor		
	1 15 W				
	0				
	1 34 W				
	0 44 W				
	2 1 W				
	3 21 W				H Gurdney Engineer Telescope shaking in the wind.
	3 15 W				
	4 20 W	Seeing absolutely gone			Wind too strong to work longer in the open.
	2 27 W				

Date Friday June 4-5 (continued) S.H. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8817	NGC 6366	17 24.4	-15 11	Newt.	E-1 [illegible]-D			1 15	1 25	+1
8818	6333	17 15.7	-18 27	"	"			1 25	1 35	+1
8819	5904	15 15.4	+02 19	"	"			1 45	1 49	+1
8820	5272	13 14.2	+28 24	"	"			1 54	2 04	+2
8821	6333	17 15.7	-18 27	"	"			2 08	2 18	+2
8822	5904	15 15.4	+02 19	"	"			2 22	2 26	+2
8823	6779	19 13.2	+30 24	"	"			2 31	2 39	+2
8824	6205	16 39.4	+36 31	"	"			2 43	2 55	+3
8825	6-779	19 13.2	+30 24	"	"			3 03	3 05	+3
8826	7089	21 30.2	-01 17	"	"			3 17	3 21	+3

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 35	0 34 W				
1 5	0 55 W		Poor		Seeing better than in W. but poor. Good guide star
1 ½	3 06 W				← From λ Oph 16 27.9 +02 07
2 1	1 27 E				
2	2 36 W		Very poor		
2 2	2 43 W		"		
2	0 1 E		"		
2 [illegible]	0 4 W				
3 [illegible]	2 2 W				
3 [illegible]	1 36 E				Sounding all but complete

247

Date Mon-Tue June 7-8/43 S-H-No Julian Day

Plate No.	Object	R.A. 1900 42	Declination 1900 7.	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8827	N.G.C. 5904	15 15.4	+02.19	Newtonian	E103-O			21 06	21 08	
8828	5466	14 03.1	+28 48	—	—			21 17	21 27	
8829	5053	13 13.6	+18 01	—	—			21 37	21 51	
8830	5904	15 15.4	+02.19	—	—			21 58	22 01	3E
8831	5466	14 03.1	+28 48	—	—			22 09	22 21	13W
8832	5053	13 13.6	+18 01	—	—			22 26	22 38	1.0W
8833	5904	15 15.4	+02.19	—	—			22 48	22 51	2W
8834	5466	14 03.1	+28 48	—	—			23 00	23 14	17W
8835	6366	17 24.4	+05 01	—	—			23 22	23 34	3E

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 03			good		
21 27			"		
21 5[illegible]			good		start delayed by clouds.
22 [illegible]	6 30 E				
22 21	4 03 W				
22 39	2 07 W		-		seeing improving greatly
22 51	0 20 W				
23 [illegible]	1 57 W				
23 1[illegible]	1 05 E				In clouds beg Rotation - finally ended

Date Tuesday, June 8-9, 1943 S-No-14 Julian Day

Plate No.	Object	R.A. 1900 4c	Declination 1900 12c	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8836	N.S.C.	5964	15 15.4	+02 19	Jantzen	E 103a O		1 [illegible]	1 [illegible]	NE
8837		5466	14 03.1	+28 48	—	—		21 55	22 05	
8838		5053	13 13.6	+18 01	—	—		22 11	22 23	
8839		5304	15 15.4	+02 19	—	—		22 31	22 33	
8840		5466	14 03.1	+28 48	—	—		22 36	22 43	
8841		5053	13 13.6	+18 01	—	—		2252	23 02	
8842		5304	15 15.4	+02 19	—	—		23 11	23 14	
8843		5466	14 03.1	+28 48	—	—		23 21	23 33	
8844		5053	13 13.6	+18 01	—	—		23 38	23 50	
8845		6366	17 24.4	-05 01	—	—		23 56	00 06	
8846		5304	15 15.4	+02 19	—	—		00 10	00 13	
8847		5466	14 03.1	+28 48	—	—		00 19	00 21	
8848		5053	13 13.6	+18 01	—	—		00 25	00 29	
8849		6777	17 11.8	+30 [illegible]	—	—		00 55	01 03	
8850		6333	17 15.7	-18 27	—	—		01 09	01 17	
8851		5304	15 15.4	+02 19	—	—		01 21	01 24	

Cloudy at dusk. Cloudy clearing

Focused on 102 Virginis

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 36 E						Two tier of faints, about
	0 51 W						4 half of faints in the two
	1 53 W						tiers are marked.
	2 55 W	fair					
	1 37 E						
	2 37 W						
	0 47 W						
	2 19 W						
	3 26 W				Hgeld		
	1 46 W						
	3 18 W						
	4 25 W						
	1 22 E						
	0 51 W						
	2 57 W						

251

Date Sunday June 8-9, 1942 S-H-No. (cont'd) Julian Day

Plate No.	Object	R.A. 1900-42	Declination 1900-42	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8852	N.G.C. 5466	14 03.1	+28 48	Newtonian	E 103a-O			01 30	01 42	1.1W
8853	6779	19 14.2	+30 04	–	–			01 52	02 00	1.1E
8854	5466	14 03.1	+28 48	–	–			02 05	02 19	1.1W
8855	6366	17 29.4	-05 01	–	–			02 24	02 33	1.1W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
01 42	+ 29 W					Focus tested on W Aquilae
02 00	0 25 E					
02 ?	- 06 W					
02 33	- 58 W					cut exposure on account of clouds!
						Spud all out

253

Date Wednesday June 10 Y. No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8856	HD 99867	11 [illegible] 50	+7 12	I-25	F 1080-C	0.8	+21.0	8 57	10 17	1
8857	HD 122408	13 54 [illegible]	[illegible] 59	"	"	"	21.0	10 23	12 03	2
8858	HD 153697	16 55.9	65 11	"	"	"	20.9	00 11	01 21	3
8859	HD 164852	17 53.2	2 01	"	"	"	20.9	01 29	03 25	4
	Focus tab outside thin Cover $7^{s}.5^{s}$									

Focus 23.45 Watch +0.9m

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1:-	3 42 W	46 59	0	7.49	K0	1½ 1½ 1½	
1:20	3 01 W	61 45	0	7.58	K5	½ - 2½	
1:45	1 18 W	65 07	0	6.72	F0	1½-1½-1½	H.D. 153597 (F5)
02:15	2 24 W	23 56?	1	6.92	G0	1½-1½-1½	sky very hazy at 02:00 with thin misty clouds from 02:15 on.

	MC	SC	SW	MT	ST
Jun. 10	+41.1	+06.3	+34.5	+04.1	+0.8

255

Date Thursday June 10 1943 Julian Day

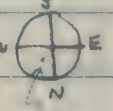
Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8860	HD 174055	13 25.0	6 32	1-25"	F103a-0	0.10	+20 8	8 52	10 52 1	E
8861	HD 139862	15 35.4	12 23	"	"	"	+20.6	10 57	00 11 2	32 W
8862	HD 154619	17 01.5	10 35	"	"	"	+20.7	00 15	02 07 3	1.51 W
8863	HD 184941	19 31.7	14 10	"	"	"	+20.6	02 14	03 52 4	1.51 W

Friday, June 11-12, 1943 H-L

Cloudy early evening. Partially clearing around 11[30], then overcast.

focus not changed.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
10 5-	2 21	+6 17	0	7.41	Ko	1½-1½-1½	passing clouds - mostly cirrus.
03 11	1 32W	12 14	1	7.09	Gs	1½-1½-1½	
02 07	2 01W	10 29	0	7.45	Ko	1½-1½-1½	
03 22	1 17W	14 14	0	7.47	Ko	1½-1½-1½	



H.D. 181909 (K2)

	MC	SC	SW	MT	ST
June 11	+41.0	+05.4	-28.6	+04^{s}.3	+0^{m}.8

251

Date Sunday June 13-14, 1942 11-11½ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3964	HD 137310	15 20.7	+45 37	I-25	E-103a-O	cut .008	+23.0	23 22	01 04	1 hr W.
	Iowa test - outside three				7^{s}-5^{s}			call mean	23^{50}	

Clear all day; [illegible] at sunset.

Frost at 23.42

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
01 04	2 52 W	+45 29	1	731	K2	2 1/2	Light cloud 23^{15}–; star goes out of focus 23^{22} Left clear 0^{00}–0.17; light clouds getting increasingly thicker 00.30 – to gone 01.04. Fog banking 02.30 – Cloudy filling in 02.45

25A

Date Tuesday January 15/43 L. No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8863	H.D. 145931	16 08.5	42 38	I 25	E-103a-O	set .008	21.2	23 20	01 30	E
	Focus test - on tide tube. $+1^s$ - 5^s									
8866	H.D. 188350	19 49.6	+00 01	I-25"	E-103a-O	set. .008	20.8	03 07	03 37	3

Standard [illegible] H.D.'s

[illegible] with [illegible] Prism off. Sky [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							From unchanged. Clouds at sunset and early evening, breaking and haying for a time & by. finally seeing to settle down
	2 34 W	42 31	0	7.19	K5	1½-1½-1½	Haze slowly lifting 00.30 - sky very thin 01.30 - 03.00 - then improving
	0 59 W	+00 06	1	5.57	A0	1½-1½-1½	Fading in again 03.25 - clouded out 03.45
							Note: Plate BTY-11 was fouled in holder on June 11-11 not light tight in transit.
							MT_s BT_m
							Jun. 15 12 MC +40.4 SC +04.1 SW -66.3 +08.8 +0.7

Date Thursday 11 18 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8867	HD 122744	13 586	8.01	I 25	Eastman O	010	+240	8 54	10 24 1	
8868	HD 140 438	15 385	13 59	"	"	"	240	10 28	00 10 4	
8869	HD 155500	17 060	09 01	"	"	"	23.9	00 30	02 30 1	
8870	HD. 191320	20 043	49 57	"	"	"	23.8	02 35	03 35 2	
	Trans Jest			Outside Hartford Fine						

Motor gen. middle free in ad. Bldg. Blown.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS Focus unchanged.
	4h 47W	7 47	0	7.35	KO	½-1½-1½	
	53 W	13 49	0	7.22	G5	1½-1½-1½	Clouds near end of exp.
	46 W	09 58	0	7.39	KO	1½-1½-1½	Slot obliged by clouds, Imm. clouds.
	43 W	50 04	0	6.3	A2	1½-1½-1½	
						7-5	

	MC	SC	BW	MT	ST
			m s		m
Jun 18	+39.1	-02.8	-1 20.6	+09.5 0	+0.8

Date Friday June 18-19/13 No-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8871	H.D 99967	11 25.0	+47 12	1-25"	E103a-O	Set. 008	+24.3°C	08 53	11 05	3	
8872	HD 147662	16 18.1	+68 48	"	"	"	+21.2	11 12	01 03	4	
8873	169 22	15 18.4	+49 40	"	"	"	24.1	01 07	01 [illegible]	1	
	Yours Sent			Exclude through		Fuse					

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							Focus unchanged!
	5 07 W	+46 58	1	7.49	Ko	1½-1½-1½	Light clouds 09 20 - 10 05 — no clouds 10 05 - 10 20
	2 13 W	+ 68 41	1-0	7.47	Ko	1½-1½-½	Haze, light clouds.
		+3 +1	1-2	7.51	Ko	1½ 1½	Blanketing in eastern sky. Enormous thick cloud up at 3.00 !
						7-5	

Date Saturday, June 19-20, 1943 M.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8874	HD 120602	13 45.4	+05 59	I-25	E-103a-O	5.7 .108	+27.0	20 51	21 57	1	"
8875	129420	14 37.4	+21 33	"	"	"	+27.5	22 01	23 51	2	"

Sun Exp 81 on plate.
Focus set 23.33

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
21	1 41 W	+05 45	1	7.25	K2	1½ 1½ 1½	
22 51	2 46 W	+21 31	1	7.21	55	1½ 1½ 1½	Light cloud Sun being guard. Thickens aft.

361

Date June 20-21 Sunday Y-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8876	HD 122910	13 50	2 47	I-33	Eastman O	0.10	+29.1	8 53	10 53	3	37W
8877	HD 153226	16 530	14 03	"	"	"	+28.3	10 58	12 44	4	26W
8878	HD 168009	18 12.7	45 10	"	"	"	+28.5	00 50	01 54	1	17W
8879	HD 184958	19 31.8	70 47	"	"	"	+28.6	02 02	03 42	2	4W
	Iron test - outside three lines				7s-5s						

Forms 23.31

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
10 53	2 27W	2 32	0	7.35	K0 1½-1½-1½	very faint note temp!
12 44	1 26W	13 57	0-1	7.29	G5 1½-1½-1½	Fog
01 53	1 17W	45 13	1	6.86	G0 1½-1½-1½	
01 43	1 48W	70 51	1	7.32	K2 1½-1½-1½	light scattered clouds 03:00-03:30

		MC	SC	SW		MT	ST
Jun. 21	12	+38.0	-05.1	-01	23.7	+15.7	+09

369

Date Monday June 21-22 1942 H-L Julian Day 2,430,897

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
9990	HD 122566	13 59 3	-11 27	1-25	E 103a-O	004	38 °	2 : 55	2 : 15	3	+1
	+38543		-11-27								
	Iron Cal - watch strength										
9991	HD 150 530	16 36 9	-25 03	"	"	"	28 °	13 11	02 51	4	2:4N

Log kept at Mt. Hamilton

Temp. at 23 33

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
2 11	1 45 W	+51 [illegible]	1	6.05 6.73	AO =O	1½ 1½	Fine keys. Hitting & hot to be [illegible] to find & start.
02 5	3 54 W	-24 58	1½	7.39	K2	1½-1½-1½	Light keys, [illegible] - breaking remarked at 04 58 - murky thunderstorm in from N.W, 02 45

Date Tuesday June 22-23 Y-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8882	HD 130080	14 41.1	33 13	I-25"	E1030 0	010	27 4	8 57	10 57	1	58 W
8883	HD 159222	17 28 4	34 21	"	"	"	27 4	11 03	12 43	2	58 W
8884	H.D. 172427	18 35.0	67 16	"	"	"	27.2	00 48	02 22	3	1 W
8885	H.D. 186815	19 41.6	56 47	"	"	"	27.0	02 28	03 48	1	1 W
	Focus Test - outside the				7^{s}-5^{s}						

Focus not changed.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
10 5[illegible]	1 58 W	33 01	0-1	7.82	Ma	1½-1½-1½	slight haze.
1[illegible]	c 58 W	34 19	0-1	732	G5	1½-1½-1½	
2[illegible]	1 31 W	07 18	0-1	736	Ko	1½-1½-1½	
03 35	1 51 W	56 54	1	7.17	G5	1½-1½-1½	light clouds 3.15-04.00

	MC	SC	SW	MT	ST
Jun. 23	+37.1	-07.2	$-1^m01^s.7$	$+19^s.1$	$+0^m.4$ mean

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Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8886	NGC 6703	18 [illegible]	+30 [illegible]	[illegible]	I-103a-O			[illegible]	[illegible]	[illegible]
8887	[illegible]	[illegible]	[illegible]	—	—			21 20	21 23	[illegible]
8888	3966	11 03.1	+28 48	—	—			21 33	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	—	—			22 22	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	—	—			22 34	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	—	—			[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	17 31	-02 12	—	—			23 11	23 27	[illegible]
[illegible]	6322	17 15.7	-13 27	—	—			23 30	23 38	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	—	—			[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	—	—			23 41	00 01	[illegible]
8890	3966	11 03.1	+28 48	—	—			00 05	00 15	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	—	—			00 22	00 28	[illegible]
[illegible]	6322	[illegible]	[illegible]	—	—			00 33	00 42	[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 E						Sun in view
	2 E						Unguided
	3 W						
	3 W						
							← Sun behind
	0 30 W						
	1 E						
	1 W						
	0 30 E						
	0 15 E						
	0 15 W		seeing unreadable!				(good)
	1 W						
	1 30 W						
	2 W						
	2 E						
	1 W	←	focus on ☆				Superb Sun Image

Date [illegible] **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
2902	N.G.C. 6402	17 31.4	-03 12	Newtonian	[illegible]			00 51	01 05	
2903	5466	14 03.1	+28 42	—	—			01 11	01 23	
2904	6333	17 17.1	-18 27	—	—			01 29	01 37	
2905	6713	19 11.2	+59 04	—	—			01 44	01 52	
2906	6364	17 24.1	-32 01	—	—			01 57	02 07	
2907	6402	17 31.4	-03 12	—	—			02 14	02 28	
2908	7089	21 30.8	-01 07	—	—			02 33	02 37	
2909	6779	19 14.8	+30 04	—	—			02 42	02 50	
2910	6205	16 39.5	+36 34	—	—			02 54	03 07	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	01 15 N						
	01 29 N						
	01 42 N						
	01 57 N						
	02 32 N						
	02 45 N						
	01 04 N						
	01 22 N						
	01 07 N						

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Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	1	
8914	[illegible]	[illegible]	[illegible]	"	"			21 32	21 36	2	
8913	"	[illegible]	[illegible]	"	"			21 39	21 39	1	
8914	"	5052	13 13.6	+18 01	"	"		21 43	21 53	2	
8915	"	5966	14 03.1	+28 48	"	"		21 55	22 03	1	
8916	"	5904	15 15.4	+02 19	"	"		22 12	22 19	2	
8917	"	6205	[illegible]	+36 34	"	"		22 20	22 [illegible]		
8918	"	"	"	"	"	"		22 29	22 34	2	
8919	"	6402	17 34.9	-03 12	"	"		22 58	23 12	1	
8920	"	6324	17 29.4	-05 01	"	"	"	23 10	23 26	2	
8921	"	6323	17 17.7	-15 27	"	"	"	23 29	23 [illegible]		
8922	"	5914	15 10.[illegible]	+42 [illegible]	"	"	"	23 51	23 [illegible]	2	
8923	"	5466	14 17.1	+28 18	"	"	"	23 57	0 07		
8924	"	5053	13 13.6	+18 01	"	"	"	00 11	00 23	2	
8925	"	6960	[illegible]80	+00 52	"	"	"	00 29	00 38	1	
8926	"	6402	17 34.9	-03 12	"	"	"	01 [illegible]	01 [illegible]	2	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 [illegible] E		Not very good			From a 100 degree (3 more settings)
	0 [illegible] W					
	1 28 W					
	2 31 W					
	1 52 W	← reforussed				(about 1 min change)
	0 51 W					
	0 26 E		variable			
	0 04 W					
	0 17 E					
	0 21 W					← From a 3 deg 5. 15 [illegible]
	2 30 W					
	3 54 W					
	5 02 W					
	0 18 E	← reforussed				from setting good
	1 41 W					

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Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
[illegible]	NGC 6333	17 10.7	-18 57	Newt.	F-103-O			01 27	01 37	1	[illegible] W
8923	" 6346	17 [illegible]	-05 01	"	"			01 40	01 54	2	[illegible] W
8925	" 6779	19 14.2	+30 04	"	"			02 00	02 10	1	[illegible] W
8930	" 6402	17 31.4	-03 12	"	"			02 15	02 31	2	[illegible] W
8931	" 6366	17 24.4	-05 01	"	"			02 34	02 44	1	[illegible] W
8932	" 6205	16 39.5	+36 34	"	"			02 49	02 57	2	[illegible] W
8933	" 6779	19 14.2	+30 04	"	"			02 56	03 04	1	[illegible] W
8934	" 7089	21 30.2	-01 07	"	"			03 11	03 13		[illegible] W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
[illegible]	2 14 W						
[illegible]	2 22 W						Cirrus & fair clouds, passing thin, [illegible]
[illegible]	0 49 W						
[illegible]	2 49 W						
[illegible]	3 12 W						On small plates.
[illegible]	4 05 W						
[illegible]	1 43 W						
[illegible]	0 [illegible] E						Spectra all plates.

Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8735	NGC 7004	21 15.1	+12 12	Newt	I. 103a D			22 [illegible]	[illegible]	
8736	" 6205	16 [illegible]	[illegible]	"	"			22 [illegible]	[illegible]	
8737	" [illegible]	[illegible]	[illegible]	"	"			[illegible]	[illegible]	
8738	" [illegible]	[illegible]	[illegible]	"	"			[illegible]	[illegible]	
8739	" 6779	[illegible]	[illegible]	"	"			[illegible]	[illegible]	

Sky cloudy most of night. Some [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 49 W						[illegible]
	0 57 E						[illegible]
	0 [illegible] W						[illegible]
	0 31 W						[illegible]
	0 41 E						[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]
							All small plates

283

Date Saturday June 26-27 Y-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
8940	-D 146537	16 17	57 41	I-2	F103a-0	010	29.4	10 00	11 30	1	2h 4
8941	HD 154391	17 00.1	60 47	"	"	"	24.3	11 35	01 57	2	1
8942	" 17 51	18 29.9	20 12	"	"	"	21.2	01 58	3 41	3	1
	Focus test - outside thru base				J-S						

Focus 23.30 foggy at first.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
11 30	76m W	27 32	V	7.37	K2	1/2-1/2-1/2	
	L 55 W	4 = 40	/	7.24	K0	=1/2-1/2	
	31 N	39 13	1=0	7.13	K=	1/2 1/2 1/2	

		m.c.	s.c.	Right 3 m.	2 − 1 3 m. 3 m.
	Jun 28	+34.8	-07.3	+10.3	+18.1 +0.2

285

Date Sunday June 21 1942 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
2943	CHD 144-91	15 [illegible]	+5 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11 [illegible]	[illegible]	[illegible]
	Standard	5h 0m		8"-B						

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							MC SC SW MT ST
							Jun. 28 +34.8 −09.3 +10.3 reset +18.^{s}1 reset +0.2^{m}
							+0.2

287

Date Monday, June 28-21 1943 - H. No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle
8944	HD 127042	14 24.1	+28 44	2-2"	E-103a-J	.028	+25.6	20 55	22 55	2	
8945	HD 129194	14 27.4	+35 37	"	"	"	+25.5	22 58	01 24	3	
8946	181597	19 16.0	+19 23	"	"	"	+25.0	01 28	03 12	4	
	From test - outside thru-focal 7s - 5s										

Format C 23.37:

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	2 37 W	+28 32	1	7.45	A0	1½-1½-2	Start of guiding & focus, light clouds
	3 04 W	-35 9	1-0	7.65	F5	1½-1½-1½	
	2 35 W	+47 26	1-0	7.26	K0	1½-1½-1½	end focus clouds 02 50 from NW = star focus 3.5 = 03.25 = gain for guide 03.40.
							K SL SW MT ST +3.2 -0.2 +0.1 +1.6 +0.2

2.51

Date Wednesday June 30 - July 1 Y - No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
8947	HD 37067	14 24.2	28 44	I-25	E103a-O	010	17.8	8 56	10 16	1	1h 55m W
8948	HD 154126	16 58.5	32 02	"	"	"	18.0	10 21	11 51	2	0h 0m W
8949	HD 164824	17 59.7	33 20	"	"	"	18.0	11 56	01 30	3	1h 34m W
8950	HD 186021	19 36.9	22 13	"	"	"	18.0	01 35	02 15	4	1h 40m W
8951	HD. 199611	20 53.3	50 21	"	"	"	17.9	02 30	03 30	1	0h 0m W
	Same test - Table thru Base				$7^s - 5^s$						

Focus set 23.40

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	1h 55m W	28 32	10	6.95	A0	1½-1½-1½	* looks v. faint but a sight *
	67m W	31 57	0-1	7 60	K0	1½-1½-1½	
	1 47 W	33 18	1	7 45	K5	1½-1½-1½	
	1 52 W	22 19	1-0	7-57	K2	1½-1½-1½	
	1 12 W	50 30	1-0	6-08	F0	1½-1½-1½	

Date Saturday July 1-2/43 L. Mt. Julian Day 600

Interval Time

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	~~Starting Time~~ E.S.T.	~~Ending Time~~ E.S.T.		Hour Angle End
8938	H.D. 136543	15 26.7	37 09	I-25	E-103a-O	Set 008	21.6	15 20	17 20	1	
8943	" 163522	17 36.9	31 29	"	"	"	21.0	17 24	18 56	2	18 W
								EASTERN TIME	STANDARD		
8954	HD 176541	18 55.7	22 40	I-25"	E-103a-O	008	21.0	00 40	02 46	3	
8955	" 189127	19 53.4	57 59	"	"	"	20.9	02 51	03 53	4	
	Horizontal - outside thermometer						7° - 5°				

Nα

Focus set at 23.43

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1 52 W	36 52	1-0	7.52	Ko	1½-1½-1½	
1 18 W	31 12	1	7.43	Ko	1½-1½-1½	
2 07 W	22 42	1	7.76	Ma	1½-1½-1½	
2 20 W	58 06	1	7.19	Ko	1½-1½-1½	

	C	EC	SW	MT_a	ST_a
Jul 2 17	+23.4	-00.3	+55.7	+03.4	+0.1

213

Date Friday July 2-3 1943 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8956	HD 135530	15 10.5	+42 33	I-25	E-103a-O	out .089	23.5	20 55	23 35	1	
8957	" 159125	17 32.2	+27 22	"	"	"	23.0	23 38	00 56	2	
8958	" 182625	19 20.5	+36 15	"	"	"	23.0	01 32	02 48	3	
	Yerkes Test				Eastman	1 mgt bar					

Focus set to 23.40

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
13	2 41 W	+42 22	1-0-1	7.72	Mc	1½ ½ ½	set on HD 17043 for standard night and good seeing. Light clouds over after start, again 22m – 23m to 1 a.m.
	1 49 W	+37 18	1	7.15	KO	½-1½-1½	Very L. light cirrus
	1 09 W	+32 20	1	7.45	Ko	1½-1½-1½	Sky clouding over completely at 2.00
						1-5	
							Q Cyg S +31 2 nc +28 4 sc 1 5 5 3 su Rmt 6 ssa

395

Date Monday July 5-6/43 No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
8959	H.D 156697	17 19.0	+06 11	1-25"	E 103a-O	C 10	+23.8°C	23 18	01 22	4	
8960	H.D 184977	19 31.9	+47 57	"	"	"	+23.7	01 27	02 41	1	
8961	H.D 197101	20 36.4	+55 59	"	"	"	+23.7	02 45	03 53	2	
	Focus test - outside thru bore				$7^s - 5^s$						

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Focus unchanged !
	2 42W	+06 09	1	Fo	672 1½-1½-1½	sky clearing before sunset but slowly
	1 44W	+48 00	1	As	684 1½-1½-1½	hazing in shortly afterwards + thick
	1 52W	+55 48	1	Fo	6:81½-1½-1½	haze, particularly towards horizon, all
						during evening clearing somewhat
						about midnight. Sky getting thick 03:30

391

Date Tuesday July 6-7/43 A Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
8962	HD 173416	18 40.1	36 28	1-25	E-103a-O	set .008	22.3	23 53	01 15	.3	1.3W
8963	40 Her 42	18 37.3	26 19	1-25	E-103a-O	"	22.0	01 21	02 41	4	2.1W
8964	HD 213272	22 25.2	30 13	1-25	E-103a-O	"	22.0	02 53	03 53	1	1.1W
	Focus test	outside	through	hour	75-55						

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
							Focus unchanged
01	1 13 W	+36 30	0-1	K0	7.25	1½-1½-1½	Cloudy - only a few stars visible at times, thin cloud
241	1 21 W	+36 58	1-2	K0	7.39	1½-1½-1½	Considerable haze which finally closed in completely
311	1 [illegible] W	+35 25	1-2	A0	6.53	1½-1½-1½	[illegible] slight haze [illegible]

297

Date Wednesday July 7-8/43 -No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
3705 F	H.D. 201358	21 16 6	32 02	1-25"	E-103a-O	Set. 010	+21.5C	02 44	23 38	3	14W
	Focus Test - outside the base -7^S -5^S										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							Forecast 23:44±
[illegible]	T 3+W	+32 11	1	6s	7·22	1½-1½-1½	Cloudy sky of early evening breaking around midnight & t filling in a short time later. Sky improving 02.00 with considerable haze in south. Smith having in again (naturally) shortly after beginning exposure. Star gone most of time. S 7s-5 in hold backwards ?? Running plans with.

301

Date Thursday July 3-4/43 A. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	h	Hour Angle End
8965	143209	15 8 40	39 58	1-25"	E-1030-0	0.18	26 9	20 54	22 04	4	+N
8966	161815	17 426	~~39 22~~	"	"	"	26 9	22 30	23 40	1	+N
8967	182455	18 18	33 01	"	"	"	26 7	23 46	00 46	2	+N
8968	196042	20 336	37 38	"	"	"	26 8	00 54	01 46	3	+
8969	202740	21 127	41 30	"	"	"	26 8	01 51	02 41	4	-N
8970	213399	22 259	48 51	"	"	"	26 9	02 53	03 39	1	-E
	Focus Test				75-55						

Hour Angle

Sensitometer exposures for re-development

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	1 52 W	39 57	1-2	7.44	K0	1½-1½-1½	Focus set at 23.35 Excellent night to work.
	0 -- N	38 54	2-3	7.56	K0	1½-1½-1½	Used Kopton + O15 93:4 for all pretty good images in this
	1 11 W	33 04	3-2	7.50	K0	1½-1½-1½	
	0 31 E	35 07	3-2	7.32	K0	1½-1½-1½	
	0 14 N	42 01	3	7.60	K2	1½-1½-1½	a very sharp steady image
	1 10 E	40 04	3	7.52	K0	1½-1½-1½	

The book plates contain one package of Ilford Hypersensitive plates (Ortho) Standard.

303

Date..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.

me	Ending Time E.S.T.

Sept 5 614 plates on B.S.P.

Mar 12-13 and 1003

Last plate for report 1942-43 8939.

Last plate	1941-42	7921	
"	July	8071	150
"	Aug	8200	129
"	Sept	8317	117
"	Oct	8421	104
"	Nov	8483	62
"	Dec	8501	18
"	Jan	8548	47
"	Feb	8591	43
"	Mar	8681	90
"	Apr	8751	70
"	May	8798	47
"	June	8948	150

Inside displaced to violet means focus should be made shorter

(see Mar 1-2, 1943)